

*Tackendam*

CURRICULUM COMMITTEE

REPORT 28U

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Curriculum Course Changes - 1982-83

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for submission to

Arts and Science Faculty Council

May 15, 1981.

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The Curriculum Committee has prepared a summary version of the departmental curriculum submissions. Most departmental submissions this year were, as one department put it, of a "housekeeping" nature. The Committee decided not to circulate the many pages of minor, often merely editorial, changes that formed the major portion of some submissions.

The details of the new wording will be available in a binder in the Dean's Office (Loyola Campus, Room CC325; SGW Campus, Room H401) and two copies will be available for consultation at the Council meeting. (Duplication costs will be considerably reduced). Further editorial corrections to these course descriptions will, of course, be made before they are presented as calendar copy.

Descriptions of new courses are presented in full in the circulated summary version. Rationales for the changes are, in general, presented in summary form, but in some exceptional cases; e.g. where the proposal involves a new programme, the department's complete rationale has been circulated. (Mathematics, Religion, History, and Classics).

The proposals that are presented for Council's approval are versions prepared after the Curriculum Committee's review process and after negotiations (sometimes lengthy) with the departments. That is, the versions presented are already modifications of the original departmental submission. In almost all cases the departments were willing to withdraw proposals that the Committee felt it could not recommend to Council. The Committee was, therefore, able to make its recommendations in a positive fashion. That is, all of the recommendations, except for one, are recommendations for approval by Council. The one exception here is in connection with a portion of the submission from the English Department.

Many of the departmental submissions involve modifications to slot course offerings. Departments were asked to "rationalize" their slot courses mostly with the aim of solving the many problems that exist in keeping track of which slot topic a student has taken. In some cases courses have been offered routinely as slots when they should have been made a regular departmental offering. The Religion Department is an example of a department that was asked to 'reorganize' its many slot offerings and create, where appropriate, "new" courses. It

became apparent to the Committee that the guidelines for slot courses that were submitted by the Curriculum Committee earlier this year were not entirely satisfactory. A uniform format for slot courses across the Faculty has, therefore, not been possible to implement at this time, but it is thought that the submissions in this area are sensible, meet the needs of the department, and help solve the problems encountered by Assistant Dean Baldwin.

#### Budgetary Implications

The spectre of budget implications, of course, cast its pall across the Committee. It is the Committee's understanding that departments know that they cannot expect any new resources in connection with the modifications proposed. These modifications, except where explicitly stated in the Committee's recommendations, are assumed to be free of further expense. Indeed, the departments will have to assume that the general budget constraints that are tightening around existing resources will possibly be applied to the newly approved modifications.

The Committee did not feel that it could automatically turn down proposals with admitted budget implications. It felt that such proposals warranted a fair assessment in terms of the academic considerations involved. The main proposal in this category is the Mathematics Department's proposal for a Specialization in Actuarial Mathematics.

#### Editorial Changes

Many editorial changes to the final calendar entries will of course be necessitated by modifications to course offerings by one department that will affect another department. The departments involved will be consulted and informed. An example of what is meant here would be the case of CHEM C371 which has been split into two 3-credit courses. The calendar entry for departments such as Biology and Psychology that use the course in their programmes will have to be changed appropriately. The Curriculum Committee did not feel that such changes had to be processed as formal programme changes.

Submissions that involve establishing a new programme are presented first, proposals recommending discontinuance of programmes are second, and the remaining submissions are submitted alphabetically.

For the Curriculum Committee

  
T. Gray

#### Committee Members

T. Gray, Actg. Asst. Dean (Chairman)

P. Albert

A. Costanzo

G. Decarie

P. D'Hollander

M. Petrie

New programmes

## Classics

The Curriculum Committee recommends approval of the Classics Department's submission.

1. The proposal calls for the establishment of a Minor in Classical Archaeology. The proposed Minor would be different from the Minor currently offered by the Fine Arts Faculty in that it would concentrate on Classical Archaeology. The Fine Arts Minor is oriented mainly towards field archaeology in North America. The Classics Department already has the resources to offer this programme which they hope will be attractive to a number of students.

Representatives of the Faculty of Fine Arts have been involved in discussions prior to this proposal.

### 24 MINOR IN CLASSICAL ARCHAEOLOGY

12 CLAS C264<sup>3</sup>, C364<sup>3</sup>, C365<sup>3</sup>, C366<sup>3</sup>

3 CLAS C265<sup>3</sup> or C367<sup>3</sup>

9 Chosen from among CLAS C265<sup>3</sup> or C367<sup>3</sup>; C240<sup>3</sup>,  
C241<sup>3</sup>, C242<sup>3</sup>, C320<sup>6</sup>, C324<sup>3</sup>, C325<sup>3</sup>, C343<sup>6</sup>,  
C350<sup>3</sup>, C351<sup>3</sup>. With prior permission of the  
Department, students may substitute courses  
in field Archaeology offered by another  
University.

## 2. New courses

### CLASSICS C364

#### Classical Greek Archaeology

The art and architecture of the Greek world from 900 to 323 B.C. A study of the geometric, archaic, and classical periods with particular attention to painting (especially ceramics), sculpture, and architecture. The concept of "style" in archaeological dating. The works of Exekias and Douris, of Phidias and Praxiteles, and of Iktinos and Kallikrates as representative of the "ideal" in Classical Greek Art. Some work at the Montreal Museum of Fine Arts. (3 credits)

## Classics (cont'd)

### CLASSICS C365

#### Archaeology of the Hellenistic Age

The art and architecture of the Greek world after the death of Alexander the Great. Hellenistic aestheticism, synthesis of oriental and Greek tradition in the visual arts. Development of motifs of anxiety and eroticism. Impact of Hellenistic art on Rome and Italy. (3 credits)

### CLASSICS C366

#### Etruscan and Roman Republican Art and Archaeology

A survey of Neolithic, Bronze, and early Iron Age cultures in Italy: Palafitte and Villanovans. The emergence of Etruscan civilization and the coming of the Greeks. The archaeological reconstruction of the city of Rome in the republican period. Some work at the Montreal Museum of Fine Arts. (3 credits)

### CLASSICS C367

#### Roman Imperial Art and Archaeology

Development of Roman art and architecture from Augustus to the late Roman Empire. Roads, fortifications, aqueducts, theatres, porticos, monuments, baths and basilicas. Pompeii and Herculaneum. Special emphasis on Roman Britain. From Roman to Romanesque. (3 credits)

### 3. Changes to existing course descriptions

The course descriptions and titles of CLAS C264 and C265 have been extensively revised:

### CLASSICS C264

(Also given as History C227)

#### An Introduction to Classical Archaeology

Archaeology as an art and as a science: towards a definition of archaeology. The history of classical archaeology. Field archaeology today, its tools and techniques: stratigraphy, excavation, and artifact analysis. The relationship of archaeology to Pre-History, History, Fine Arts, and Anthropology. (3 credits)

### CLASSICS C265

(Also given as History C229)

#### The Archaeology of the Greek Bronze Age

The Bronze Age in Crete and Greece within the context of Near Eastern civilizations. Knossos, Mycenae, Troy. Presentation, classification, dating, and interpretation of selected artifacts. (3 credits)

FACULTY OF ARTS AND SCIENCE

FORM A (5)

UNDERGRADUATE CURRICULUM PROPOSALS

FEB 24 1981

for the 19 82-83 -- calendar

DIVISION

1

Department

CLASSICS

Please submit a brief summary of the proposed curriculum change(s), your rationale for proposing them, and a statement of budgetary implications (including resources required).

This form must accompany all proposals for curriculum change.

1. Proposed Curriculum Changes

- a) In place of C264 and C265 which we propose deleting, we suggest that the following courses be introduced: C264 (An Introduction to Classical Archaeology), C265 (The Archaeology of the Greek Bronze Age), C364 (Classical Greek Archaeology), C365 (Archaeology of the Hellenistic Age), C366 (Etruscan and Roman Republican Art and Archaeology), C367 (Roman Imperial Art and Archaeology).
- b) The Introduction of a Minor in Classical Archaeology.

2. Rationale

- a) Archaeology is a popular subject in all University Classics Departments.
- b) Our archaeological offerings are at present peripheral and merit organization into a unit.
- c) We possess manpower viz. Dr. D. Brown, Dr. S.C. Casey, Prof. E.M. Preston, Prof. F.E. Shlosser and Dr. L.J. Sanders.

3. Budgetary Implications

No increase foreseen since the majority of the Classics Department is both able and willing to teach archaeology courses.

N.B. It is intended that these courses will be staggered so that only half will be offered in a given year.

DATE: FEBRUARY 23, 1981

L J Sanders (Dept. Chairman)  
Provost or  
R. J. Sanders



(b)

TO Professor T. Gray

FROM Donat Taddeo, Dean, Div. I

DATE March 30, 1981

Further to our conversation of March 27, 1981, I am providing you with information concerning the proposed Minor in Classical Archaeology.

1. There exists at the moment a Minor in Archaeology in the Fine Arts Faculty. It is oriented towards field archaeology, mainly North American. A meeting was held in early October, 1980 to discuss the question of Archaeology. I convened the meeting and attended it along with Dr. Sanders and Dr. Brown of the Classics Department. The Fine Arts Faculty was represented by Dean Emery and several other faculty members.
2. Associate Dean McKeen pursued the issue with Associate Dean Gross. McKeen related to me that Gross had little difficulty in accepting the proposed minor since it was distinctly in Classical Archaeology and since the Archaeology Minor in Fine Arts had enrolled only one full-time student and two part-time students.
3. In my last conversation with McKeen, I had the impression that he had laid the groundwork necessary for the adoption of the Minor in Classical Archaeology at UCCC.

Please do not hesitate to contact me if you require additional information.

A handwritten signature in black ink, appearing to read "DT/Tb".

DT/Tb

cc. Dr. L. Sanders, Classics

## History

The Curriculum Committee recommends approval of the History Department's submission.

### 1. New Certificate Programme

The proposed Certificate is submitted in anticipation of forthcoming demand for such a programme. The Ministry of Education is introducing a compulsory course in Quebec History at the CEGEP level. Similar requirements may be introduced at the high school level. Teachers will, therefore, be needing some formal background in Quebec History in order to teach this material.

#### 30 CERTIFICATE IN THE HISTORY OF QUEBEC

This programme is designed to prepare teachers at both the Secondary and CEGEP levels to offer courses in the History of Quebec. It also provides an outline of study for those who are generally interested in the topic of Quebec History.

- |    |   |
|----|---|
| 3  | HIST C209 <sup>3</sup>  |
| 3  | HIST C210 <sup>3</sup>  |
| 12 | Chosen from HIST C305 <sup>6</sup> , C307 <sup>3</sup> , C308 <sup>3</sup> , C313 <sup>6</sup> ,<br>C314 <sup>6</sup> , C315 <sup>6</sup> |
| 6  | HIST C400 <sup>6</sup> or C411 <sup>6</sup>   |
| 6  | Chosen from courses on Quebec or French Canada offered by the Departments of French, Economics, Sociology or Political Science            |

### 2. New courses

Two new, 3-credit courses that have previously been offered as slots are proposed. HIST C215(History of Recreation and Leisure in Canada) is designed primarily as a course for the Recreation and Leisure Studies programme.

#### HISTORY C215

##### History of Recreation and Leisure in Canada

A survey of the history of recreation and leisure from the time of European contact with native peoples to the present day. It is placed in the context of Canadian history to examine such phenomena as European and American influences

History (cont'd)

## HISTORY C215 - cont'd

on Canada, effects of urbanization, the roles of women in society, and the commercialization of leisure. Recreation and leisure are understood to include not only sports and games but such activities as rural bees, education, drinking, gambling, and celebrations. The course will also provide an introduction to the historical literature on recreation and leisure, and to the discipline of History. (3 credits)

HIST C349 has been offered previously as a slot course, and it now seems appropriate to establish it as a regular offering.

## HISTORY C349

## A History of World War II

This course examines the impact of World War II in the social, economic, political and military spheres. Description of international diplomacy and major battles will be linked to a study of the social effects of the War, such as resistance movements and technological innovation. (3 credits)

3. HIST C390 Philosophy of History will no longer be cross-listed with Philosophy

## HISTORY C390

## Philosophy of History

An analysis of the nature of historical knowledge and explanation will be followed by a study of classical and contemporary attempts to elucidate the meaning of history. (6 credits)

4. Change in prerequisites for 400-level courses

It is proposed that the prerequisites for many 400-level courses be made uniform as follows:

"A survey course in the field and a 300-level course in History (minimum 3 credits) or permission of the Department".

Courses affected by this prerequisite change are:

HIST C400, C402, C404, C406, C408, C411, C426, C430, C436, C438, C441, C451, C461, C470.



(11)

TO Tom Gray - Curriculum Committee

FROM S.J. Scheinberg - Chairman, Department of History

DATE April 21, 1981

I would like to submit an additional rationale for the History Department's proposed certificate in the History of Quebec. As you know, this certificate has been proposed in order to capitalize on the introduction of compulsory Quebec history courses at the high school and Cegep level. The Department already has a few Cegep teachers enrolled in Quebec courses as a means of preparing themselves for this eventuality. However, they will earn no Department certificate or degree for the work they are taking.

The intent of introducing the programme at this time is to be prepared when, and if, the compulsory Quebec courses come into being. If we were to wait on their introduction, we feel that it would take up to two years before we could mount this programme.

Since this is a no cost programme, based on existing courses, there seem to be little reason to delay its implementation. However, if there are some reservations we would be willing to have the programme passed, but its introduction contingent on the Government implementing the required Quebec courses at the high school or Cegep level.

S.J. Scheinberg

SJS/lm

## Mathematics

The Curriculum Committee recommends approval of the Mathematics Department's curriculum proposal.

1. The budgetary implications for the proposed programme in Actuarial Mathematics, and the need for an additional room, are noted. The Committee was enthusiastic about the proposed programme; found the department's lengthy rationale quite convincing, and in spite of the cost of part-time instructors for 9 - 12 credits recommends the implementation of the programme.

60 BA or BSc SPECIALIZATION IN ACTUARIAL MATHEMATICS

54 MATH C225<sup>3</sup>, C231<sup>3</sup>, C232<sup>3</sup>, C241<sup>6</sup>, C261<sup>6</sup>, C281<sup>6</sup>,  
C311<sup>3</sup>, C331<sup>6</sup>, C325<sup>6</sup>, C345<sup>6</sup>, C431<sup>6</sup>

6 MATH C229<sup>2</sup>, C329<sup>2</sup>, C429<sup>2</sup>

2. New courses in connection with the Actuarial programme

MATHEMATICS C229

Workshop in Actuarial Mathematics I

Prerequisite: MATH C261, C281 previously or concurrently or permission of the Department. This workshop is intended to prepare students for the General Mathematics Examination of the Society of Actuaries and the Casualty Actuarial Society. Special topics from calculus, introductory real analysis, and linear algebra which are not normally included in first courses are covered with the instructor. Students will work in small groups on problems taken from sample examinations of the Society and other sources. (2 credits)

MATHEMATICS C329

Workshop in Actuarial Mathematics II

Prerequisite: MATH C241; MATH C261 and C345 previously or concurrently, or permission of the Department. This workshop is intended to prepare students for the Society's Examination 2 (Probability and Statistics) and 3(a) (Numerical Methods). Students will work with an instructor on special topics required for these examinations and not covered in other courses of the programme, such as Markov chains, finite differences, and difference equations. Instruction will be supplemented by regular problem sessions on the entire contents of the examinations. (2 credits)

Mathematics (cont'd)

## MATHEMATICS C425

## Topics in Contingency Theory, Risk Theory and Mortality

Prerequisite: MATH C325 or permission of the Department. Topics will vary from year to year, but will be chosen from the following: Applications of contingency theory in areas of life and health insurance, annuities and pensions; individual risk theory including Rosenthal's approximation, ruin theory, stop-loss reinsurance; fundamental assumptions underlying exposure formulas, interim schedules, King's method. Mathematics of graduation of mortality tables, measures of mortality, construction of life tables from population statistics. (6 credits)

## MATHEMATICS C429

## Workshop in Actuarial Mathematics III

Prerequisite: MATH C325, C331; MATH C431 previously or concurrently, or permission of the Department. This workshop will review, consolidate, and supplement the material from MATH C231, C331, and C431 required for the Society's Examination 3(b) (Operations Research) and the topics in MATH C225 and C325 needed for Examination 4 (Theory of Interest and Introduction to Life Contingencies). Students will be required to participate in the organization and presentation of material. (2 credits)

Although no new courses, extensive revision to MATH C225<sup>3</sup> and C325<sup>6</sup> are proposed.

## MATHEMATICS C225

## Introduction to Actuarial Mathematics

Prerequisite: MATH C202 or C208; MATH C203 or C209 or equivalent. Simple interest, compound interest, force of interest; annuities-certain, continuous annuities-certain, perpetuities; amortization and sinking funds, graduated mortgage schemes; bonds and related securities; capital cost and depletion. Brief introduction to life insurance. (3 credits)

## MATHEMATICS C325

## Introduction to Life Contingencies

Prerequisite: CEGEP pre-Science mathematics profile or equivalent; MATH C225. Measurement of mortality: the survival function, mortality tables, force of mortality. Life annuities: pure endowments, annual payments, continuous annuities. Life insurance: relations between insurance and annuities; net annual premiums; net level premium reserves. The expense factor; special topics. (6 credits)

Mathematics (cont'd)3. Modifications to Certificate in Mathematics for Teachers  
(Junior Secondary School level)

The new courses MATH C417<sup>3</sup> and C419<sup>3</sup> are proposed and the content of MATH C402<sup>3</sup>, C404<sup>6</sup>, C406<sup>6</sup> and C408<sup>3</sup> is modified. MATH C401<sup>6</sup> and C404<sup>6</sup> become required courses.

30 CERTIFICATE IN MATHEMATICS FOR TEACHERS  
(JUNIOR SECONDARY SCHOOL LEVEL)

15 MATH C400<sup>3</sup>, C401<sup>6</sup>, C404<sup>6</sup>

15 Chosen from MATH C402<sup>3</sup>, C403<sup>3</sup>, C405<sup>3</sup>, C406<sup>3</sup>,  
C407<sup>3</sup>, C408<sup>3</sup>, C409<sup>3</sup>, C410<sup>3</sup>, C417<sup>3</sup>, C419<sup>3</sup>

4. New courses for the above Certificate

## MATHEMATICS C417

## Topics in Mathematics Education I

Prerequisite: Permission of the Department. Topics will be chosen to take advantage of faculty and students' interest in areas related to psychology and research on learning mathematics, exceptional children, diagnosis and remediation. (3 credits)

NOTE: This course is available only to practising teachers.

## MATHEMATICS C419

## Topics in Mathematics Education II

Prerequisite: Permission of the Department. Topics will be chosen to take advantage of faculty and students' interest in areas related to psychology and research on teaching, curriculum analysis, applications of mathematics. (3 credits)

NOTE: This course is available only to practising teachers.

5. Modifications to courses involved in the above programme

The courses affected by changes in course descriptions are listed below:

## MATHEMATICS C402 Algebra I

Description modification

## MATHEMATICS C404 Geometry for Teachers

Description modification

## MATHEMATICS C407 Topics in Probability and Statistics

Description modification and change in prerequisite and reduction in credit value from 6 to 3.

Mathematics (cont'd)

## MATHEMATICS C408 Topics in Geometry

## Title change and change in description

Prerequisite: MATH C401 or equivalent and permission of the Department. Topics will be chosen to meet more advanced mathematical or professional needs of students in the light of potential developments in the geometry curriculum at the junior secondary school. (3 credits)

NOTE: This course is available only to practising teachers.

6. Other new courses

## MATHEMATICS C206

## Algebra and Functions

Coordinate systems. Radicals and distance formula. Polynomials, factoring and graphing. Relations and functions. Linear and quadratic functions, equations and systems. Exponents, exponential and logarithmic functions and equations. (3 credits)

NOTE: Students who have received credit for MATH C201 or equivalent may not take this course for credit. Science students may not take this course for Science credit.

## MATHEMATICS C232

## Computing in Mathematics

Prerequisite: CEGEP MATH 105 and 203 or MATH C204 and C205 or equivalent. Introduction to APL, primitive and dyadic operators, simple and mixed functions. Programming and editing, dealing with workspaces. Applications to calculus (sequences, series, convergence and integrals), to statistics (simulations, combinatorics and distributions) and to algebra (systems of equations, matrices and nonlinear equations). (3 credits)

The new course MATH C206<sup>3</sup> will serve as the prerequisite for MATH C207<sup>3</sup> (Statistics for the Social Sciences), MATH C208<sup>3</sup> (Fundamental Mathematics I) and MATH C209<sup>3</sup> (Fundamental Mathematics II). The new course will provide a more efficient prerequisite than MATH C201<sup>3</sup> for these courses. The course will not, however, completely displace MATH C201<sup>3</sup>.

MATH C232<sup>3</sup> (Computation in Mathematics) will allow students to see the influence of the computer on Mathematics, and will be one of the prerequisites for the new version of MATH C311 (An Introduction to Numerical Analysis).

Mathematics (cont'd)7. Other modifications

MATH C207<sup>3</sup>, C208<sup>3</sup>, C209<sup>3</sup>. Prerequisite change to reflect addition of MATH C206<sup>3</sup>.

The course descriptions for MATH C311<sup>3</sup> and MATH C312<sup>3</sup> have been extensively revised as follows:

**MATHEMATICS C311****An Introduction to Numerical Analysis**

Prerequisite: CEGEP MATH 105 and 203 or MATH C204 and C205 or equivalent and MATH C232 or COMP C211 or equivalent. Error analysis and computer arithmetic. Numerical methods for solving linear systems, Gaussian elimination, LU decomposition. Numerical solution of nonlinear equations, fixed point iterations, rate of convergence. Interpolations and approximations, Lagrange polynomials, divided differences, discrete least-square approximation, Legendre polynomials. Numerical integration, Newton-Cotes formulas, Romberg integration. (3 credits)

**MATHEMATICS C312****Numerical Analysis**

Prerequisite: MATH C311 or COMP C361 or equivalent. MATH C261 and MATH C281 or equivalent. Linear Systems: Cholesky decomposition for positive definite systems; tridiagonal case. Orthogonal factorizations: Householder matrices, least-square solutions for overdetermined systems. Data fitting: piecewise, splines, continuous least-squares. Quadrature: infinite intervals, orthogonal polynomials, Gaussian quadrature. Differential equations: systems of ODE's, predictor-corrector formula, stability, error analysis. Eigenvalue problem: Bisection, deflation, tridiagonalization, inverse iteration. (3 credits)

MATHEMATICS DEPARTMENT

CONCORDIA UNIVERSITY

B.A./B.Sc. Specialization in Actuarial Mathematics

Proposal for a New Programme

Prepared by a committee of  
the Department of Mathematics:

H. Proppe Chairman

W. Byers

Z. Khalil

M. Malik

J. Senez

## 1. Introduction

### 1.1 Function of an Actuary

An "actuary" is defined in the Concise Oxford Dictionary as an "expert authority on rates of mortality and other details of life, fire or accident insurance". Using mathematics, in particular the theories of interest, statistics and probability, the actuary collects, analyses and evaluates data on all kinds of human and environmental factors which must be considered in the design, pricing and marketing of financially sound insurance and pension programmes. These programmes must satisfy both the financial and social needs of the public. The actuary has a natural aptitude for mathematics, a creative mind and the ability to reason logically.

An actuary's training involves not only a strong foundation in mathematics, but in law, taxation, economics, accounting and selection of risks. Although much of his work seems non-mathematical, the actuary is constantly influenced by his mathematical background.

Some typical assignments might be to:

- design and price a new type of life insurance policy with benefits geared to the cost-of-living index of performance of common stock fund in order to offset the effect of inflation.
- recommend changes to modernize benefits in pension plans, and price them.
- study the effect on corporate earning of possible variations in interest rates on future investments.
- redesign an employee benefit plan to accommodate changes in Unemployment Insurance benefits.
- develop new types of automobile insurance involving "no-fault" benefits.
- review the financial operations of the Canada and Quebec Pension Plans to date and forecast future costs and revenues.

## 1.2 Employment Opportunities

Employment opportunities for actuaries in Canada and the U.S. are generally good to excellent.

Nearly two-thirds of all fully qualified actuaries are employed by insurance companies. Consulting actuaries, who now include about one-fourth of all fully qualified actuaries offer professional actuarial advice to insurance companies, corporation, labor unions, joint labor-management trustees, provinces, local and federal government agencies. Universities, business, and government employ the remaining actuaries.

Opportunities for public service exist in the Federal government, such as in the Department of Insurance and in the Annuities Branch of the Department of Labor, as well as in the insurance departments of Provincial governments.

With the growth in new insurance services and employee benefit plans, and in particular, the explosive growth in private pension plans, the need for qualified actuaries will continue to far outstrip the number of actuaries available both in Canada and the United States.

Actuarial students generally begin employment at higher salaries than others with similar levels of training and ability. Advancement in both salary and responsibility is also fast - even while professional status is being attained. Many actuaries, once fully qualified, reach top management positions rapidly. Currently about one-half of the larger Canadian life insurance companies have actuaries as presidents.

In spite of the excellent opportunities, relatively few students are attracted to a career in actuarial science. In fact not many people

even know what an actuary does. In a survey made a few years ago by an actuary, in four large cities in the United States, 21% of those who were asked what an actuary is gave an answer indicating that they had a fairly good idea; 12% more obviously had some notion but were rather vague; 40% said they had no idea; the rest were well off-base. In the course of the survey some of the definitions of an actuary were "a reactionary", "a mortuary", "a place where they bury dead actors".

Many departments of mathematics are so oriented towards pure mathematics and research that applied mathematics in general and in particular actuarial mathematics is completely neglected. Dean Geoffrey Crofts of Northwestern University's Graduate School of Actuarial Science noted that: "Many professors, at least in speaking of their enthusiasms, have a tendency to influence their students to seek careers in theoretical mathematics. But if a professor is interested in the broad spectrum of mathematics, we find a greater likelihood that some of his students will be interested in actuarial science".

Attracting more young people to the actuarial field will require a better communications effort. Dean Crofts comments: "Thousands of students study accounting and other subjects which require bright mathematical minds. Undoubtedly, many of these students could have careers in actuarial science. The communications techniques of the companies that use actuaries--and the colleges that educate them--have not been as efficient as they might be. We will need a better public information effort if we are going to get the number of actuaries we need to meet future demand."

### 1.3 Education, Training and Professional Qualifications

An actuary requires a very strong mathematical background. Computer science, accounting, finance, and economics and liberal arts courses are also important to provide the proper foundation for a broad approach to the many problems with which the actuary is regularly faced.

Professional qualification as an actuary in North America is acquired through the examinations of either the Society of Actuaries or the Casualty Actuarial Society, both in the U.S. The Society of Actuaries' examinations are concerned with the mathematical and business problems of life insurance companies (life insurance, pensions, medical insurance, etc.). These examinations are jointly sponsored by the Society of Actuaries and the Canadian Institute of Actuaries. The Casualty Actuarial Society's exams are concerned with the problems of general insurance companies (liability insurance, theft, fire, etc.).

The Canadian Institute of Actuaries is a Canadian federally chartered corporation. One of the responsibilities of the Institute is the accreditation of actuaries in Canada. A prerequisite for fellowship in the Canadian Institute is fellowship by examination in a recognized actuarial body. For students in Canada this is usually either the Society of Actuaries or the Casualty Actuarial Society.

Since successful completion of the Society of Actuaries examinations is accepted by the Casualty Actuarial Society (who also sponsor the Society's examinations) as meeting a large portion of its requirements for membership, we shall concern ourselves with the examinations required for fellowship in the Society of Actuaries.

To become a Fellow of the Society of Actuaries one must successfully complete nine examinations. (The examinations are now being somewhat revised and a tenth examination is being added this year.

A student planning an actuarial career, and not attending a university with a specialized actuarial programme, must often write the first two (preliminary) actuarial examinations while an undergraduate, find employment as an actuarial trainee after graduation, and complete the remaining examinations over a period of seven to fourteen years. (Summer employment is easier to obtain if you have already passed one or two examinations.) The examinations are generally more difficult to pass than examinations given at universities. It is very common for fellows to have failed at least one exam.

Dr. Zehman I. Mosesson, a Fellow of the Society of Actuaries and a holder of a Ph.D. in mathematics from Harvard noted a few years ago that "becoming a Fellow of the Society of Actuaries is every bit as arduous as attaining a Ph.D. The accomplishments are about equal ... certainly the level of work is comparable."

Passing the first five examinations allows a student to qualify as an Associate Fellow of the Society of Actuaries.

Descriptions of the examinations of the Society of Actuaries are given below:

Examination 1 - General Mathematics

This is a three-hour multiple-choice examination based on material usually covered in undergraduate mathematics courses through the differential and integral calculus and linear algebra.

### Examination 2 - Probability and Statistics

This is a three-hour multiple-choice examination based on material usually covered in undergraduate courses in mathematical probability and statistics. The contents of the text, "Introduction to Mathematical Statistics" by R.V.Hogg and A.T.Craig (Fourth Edition) is representative of the topics covered in the test.

### Examination 3 - Numerical Methods and Operations Research

This three-hour multiple-choice examination covers the two separate subjects of numerical methods and operations research. The examination is based on the material listed below:

a) Numerical methods: Finite differences; Interpolation with equal and unequal intervals; Central differences; Summation; Numerical methods of integration and differentiation; Difference equations; Successive approximation or iterative techniques; Numerical methods of handling matrices and determinants; Numerical approaches to linear systems of equations.

b) Operations Research: Linear programming; Queuing theory; Decision analysis; Network analysis; Simulation.

### Examination 4 - Theory of Interest and Introduction of Life Contingencies

This is a four-hour examination divided into two parts.

- a) Theory of Interest This material accounts for approximately 40% of the test. Some of the topics covered are: accumulated value and present value factors; Annuities-certain, including continuous annuities-certain, increasing and decreasing annuities-certain, and perpetuities; Amortization schedules and sinking funds; Bonds and related securities, including bond price formulas, bond accounting, amortization schedules, and the determination of yield rates.
- b) Introduction to Life Contingencies This material accounts for 60% of the test. This section emphasizes basic actuarial concepts and their use in connection with insurance and pension benefits. The recommended text is "Life Contingencies", second edition, by C.W. Jordan (1975) Society of Actuaries.

Examination 5 - Advanced Theory and Application in Actuarial Mathematics  
(6 hours, 5 parts)

- a) Advanced Contingency Theory
- b) Mathematics of Demography
- c) Principles of Construction of Mortality and other tables
- d) Risk Theory
- e) Mathematics of Graduation of Mortality. Tables and other Series

Examination 6 - Employee and Individual Benefits' Plans (6 hours, 3 parts)

- a) Life, Health and Pension Coverage
- b) Marketing of Insurance Products
- c) Selection of Risks

Examination 7 - Individual Benefit Plans (6 hours, 2 parts)

- a) Investment of Life Insurance and Pension Funds and Valuation of Assets
- b) Valuation of Liabilities

Examination 8 - Employee and Individual Benefit Plans (6 hours, 3 parts)

- a) Gross Premiums, Distribution of Surplus, and Pension Funding
- b) Contract Values and Changes
- c) Expense Analysis

Examination 9 - Canadian Accounting, Law and Taxation (6 hours, 3 parts)

- a) Life and Health Insurance Accounting
- b) Life Insurance Law
- c) Life Insurance Taxation

1.4 Actuarial Programmes in North American Universities.

Courses or programmes in actuarial mathematics are offered at 32 North American Universities (25 in the U.S. and 7 in Canada). The vast majority of these institutions give courses which prepare students for either the first 4 or 5 papers of the Society; only 5 go beyond the level required for Examination 5.

In Canada, only the University of Waterloo has an extensive undergraduate and graduate programme which covers the entire range of specialized courses needed for all of the Society's examinations. Programmes which cover the first 5 examinations exist at Laval University, University of Manitoba, University of Toronto and University of Western Ontario. Université de Montréal and Queen's University each offer 1 or 2 courses in actuarial mathematics but have no formal programme.

The programme at Laval University is very successful and is highly respected in the profession. Up to 100 students are admitted each year and 6 (full-time

and part-time) faculty members are involved in teaching and administration of the programme.

Since no comparable programme exists in the Montreal area, there is good reason to believe that a properly designed actuarial programme at Concordia which has the support of insurance companies and the Society of Actuaries would attract a significant number of students.

## 2. Proposed Programme

### 2.1 Nature of the Programme

The Department of Mathematics at Concordia University proposes to offer a new 60 credit programme: B.A. or BSc., Specialization in Actuarial Mathematics.

The programme contains all of the necessary components to prepare students to write the first four examinations of the Society of Actuaries. The Department also proposes to offer an additional new course from time to time to help prepare students for the fifth Society examination and Associate Fellowship in the Society.

In order to maximize the use of existing courses and at the same time to provide students in the programme with the specialized skills and knowledge required for the profession, it is proposed that a Workshop in Actuarial Mathematics be offered in each of the three years. These workshops are 2 credit modules of structured meetings with instructors, together with less formal problem-solving and discussion activities. Each workshop is designed to prepare students for a specific examination or parts of examinations by supplementing course material with special topics and drill on sample examination questions. The workshops would also be open to qualified actuarial trainees or students in the Montréal area who are not registered in the programme; such individuals could register for the workshop(s) as independent students.

### 2.2 Course Modifications and Additions

The following changes and additions are proposed:

(a) Change the title of the present Math C225 Mathematics of Investment to Introduction to Actuarial Mathematics. The contents are essentially unchanged.

(b) Change the title of Math C325 from Actuarial Mathematics to Introduction to Life Contingencies. The contents are essentially unchanged. This course together with Math C225 should prepare students for the fourth examination of the Society of Actuaries.

(c) Add the following courses:

Math C229 Workshop in Actuarial Mathematics I (2 credits)

Math C329 Workshop in Actuarial Mathematics II (2 credits)

Math C429 Workshop in Actuarial Mathematics III (2 credits).

Math C229 would prepare students to write the first examination of the Society; Math C329 would deal with the contents of papers 2 and 3(a), and Math C429 would cover papers 3(b) and 4. Each workshop would be offered from September to April.

(d) Add the following course:

Math C425 Topics in Contingency Theory, Risk Theory, and Mortality (6 credits).

This course is not in the programme and would be offered as an elective for students who wish to prepare for the Society's fifth examination.

Thus the entire programme can be accommodated within our existing courses and the three workshops of 2 credits each.

### 2.3 Calendar Description of Programme and Special Courses

60 B.A. or B.Sc. Specialization in Actuarial Mathematics

54 Math C225<sup>3</sup>, 231<sup>3</sup>, 232<sup>3</sup>, 241<sup>6</sup>, 261<sup>6</sup>, 281<sup>6</sup>,  
311<sup>3</sup>, 331<sup>6</sup>, 325<sup>6</sup>, 345<sup>6</sup>, 431<sup>6</sup>.

6 Math C229<sup>2</sup>, 329<sup>2</sup>, 429<sup>2</sup>.

mathematics C225 Introduction to Actuarial Mathematics

Prerequisite: Math C202 or C208; Math C203 or C209 or equivalent. Simple interest, compound interest, force of interest; annuities-certain, continuous annuities-certain, perpetuities; amortization and sinking funds, graduated mortgage schemes; bonds and related securities; capital cost and depletion. Brief introduction to life insurance. (3 credits)

Mathematics C325 Introduction to Life Contingencies

Prerequisite: CEGEP pre-Science mathematics profile or equivalent; Math C225.

Measurement of mortality: the survival function, mortality tables, force of mortality. Life annuities: pure endowments, annual payments, continuous annuities. Life insurance; relations between insurance and annuities; net annual premiums; level premium reserves. The expense factor; special topics. (6 credits)

Mathematics C229 Workshop in Actuarial Mathematics I

Prerequisite: Math C261, C281 previously or concurrently or permission of the Department. This workshop is intended to prepare students for the General Mathematics Examination of the Society of Actuaries and the Casualty Actuarial Society. Special topics from calculus, introductory real analysis, and linear algebra which are not normally included in first courses are covered with the instructor. Students will work in small groups on problems taken from sample examinations of the Society and other sources. (2 credits)

Mathematics C329 Workshop in Actuarial Mathematics II

Prerequisite: Math C241; Math C311 and C345 previously or concurrently, or permission of the Department. This workshop is intended to prepare students for the Society's

Examination 2 (Probability and Statistics) and 3(a) (Numerical Methods). Students will work with an instructor on special topics required for these examinations and not covered in other courses of the programme, such as Markov chains, finite differences, and difference equations. Instruction will be supplemented by regular problem sessions on the entire contents of the examinations. (2 credits)

#### Mathematics C429 Workshop in Actuarial Mathematics III

Prerequisite: Math C325, C331; Math C431 previously or concurrently, or permission of the Department. This workshop will review, consolidate, and supplement the material from Math C231, C331, and C431 required for the Society's Examination 3(b) (Operations Research) and the topics in Math C225 and C325 needed for Examination 4 (Theory of Interest and Introduction to Life Contingencies). Students will be required to participate in the organization and presentation of material. (2 credits)

#### Mathematics C425 Topics in Contingency Theory, Risk Theory, and Mortality

Prerequisite: Math C325 or permission of the Department. Topics will vary from year to year, but will be chosen from the following: Applications of contingency theory in areas of life and health insurance, annuities and pensions; individual risk theory including Rosenthal's approximation, ruin theory, stop-loss reinsurance; fundamental assumptions underlying exposure formulas based on individual records, scoreboard and group methods. Valuation schedule formulas, interim schedules, King's method. Mathematics of graduation of mortality tables, measures of mortality, construction of life tables from population statistics. (6 credits)

## 2.4 Rationale for New Courses and Modifications

The reasons for introducing Math C229, 329 and 429 have already been discussed in 2.1. In order to create a programme which will give students a sound undergraduate education and at the same time prepare them for a respected and well-paying profession, we have packaged a number of existing courses and added the three workshops which will be the focal points of the professional training.

However, the act of declaring a certain set of courses to constitute such a programme is not enough to assure its success and acceptance by the actuarial profession. In order to attract students in sufficient numbers it will be necessary to publicize the programme both inside the university and in the CEGEP system. To maintain a viable programme, the Department must ensure that its content and standards correspond closely to what the profession demands through the Society's examinations, and that it be perceived by students as having the respect and support of prospective employers. Both of these requirements have resource implications which are discussed in Section 3.

For the programme itself, these considerations have motivated the changes in the titles (and minor modifications in the descriptions) of Math C225 and C325:

- a) The first course (Math C225) should be available to a large group of students, particularly students in the Faculty of Commerce and Administration, who are curious about the programme but do not know very much about the profession. Thus Math C225 should serve both as a required course for students in the programme and as an elective course which introduces other interested students to the actuarial sciences. This is the reason for changing the title to Introduction to Actuarial Mathematics and making minor modifications to the description.

b) The titles of the more advanced specialized courses should reflect the extent to which they cover the material of the Society's examinations. These courses are not intended to publicize the programme; most students who take them do so because they have already decided to write the examinations. We have therefore proposed a new title for Math C325 which gives more information about the nature and scope of the course.

In order to enhance both the credibility of the programme and the Department's role in the initial training of actuaries, we propose to give students the opportunity to acquire the more advanced knowledge needed for Examination 5, even though (because of credit constraints and our commitment to limit extreme curricular specialization in undergraduate programmes) additional courses have not been included in the programme. This is the reason for proposing Math C425. The course would only be given if there are enough students. If offered in the evening, it may attract qualified actuarial students from other institutions and students working for insurance companies.

### 3. Resource Requirements

#### 3.1 Faculty

Mathematics C225 is now being offered every year and Math C325 is given when there is sufficient demand. These courses are normally taught by a part-time faculty member who is an Associate Fellow of the Society. With the exception of the workshops (Math C229, C329, and C429), all other courses in the programme are presently being offered at least once each year and would not require additional faculty (assuming no more than 25 students enter the programme each year). The workshops could be staffed by both full-time and part-time faculty; each workshop representing a half course for teaching load purposes. Thus it is in theory possible to offer the entire programme at the cost of part-time contracts for an additional 3-4 half courses.

The Department feels that this is a minor investment by the university which would be recovered very quickly if the programme succeeds.

However, for the programme to develop the reputation and appeal enjoyed by similar programmes at other universities, we feel it is essential to have a full-time faculty member formally appointed as Programme Director. His responsibilities would include teaching at least one specialized course (as well as regular courses), administration of the programme, advising students, publicizing the programme (particularly outside the university) and maintaining close communication with the Society and insurance companies.

The Department does not intend to ask the university to fund a new position for this purpose, nor is it prepared to use any existing positions to appoint a full-time faculty member; we feel such a serious commitment of funds is not warranted until there is concrete evidence that this undertaking has become a significant part of the Department's overall activities.

(33)

We are presently making preliminary inquiries concerning the possibility of some external funding for such a programme. If a substantial sum can be raised for, say, each of the first 3 years of the operation, the Department will expect authorization to appoint a full-time faculty member as Programme Director, with the understanding that if the programme is judged to be self-financing after the 3 year period, the position would become permanent.

### 3.2 Space

In order to give a distinctive identity and cohesiveness to the programme it is important that it be housed in a specific location, an "Actuarial Room". The room would be furnished with desks or tables and chairs, blackboards and bulletin boards, and would contain literature on the actuarial profession, reference books, copies of old examinations, information on employment opportunities, etc. It could serve as the location of the workshops and as a regular or casual meeting place for students, instructors, and visitors. The Department therefore requests that the University provide such a room.

### 3.3 Library

Some additional library acquisitions will be required for the programme. It is hoped that after a modest initial outlay, continuing costs can be absorbed in the Department's present library budget.

Religion

The Curriculum Committee recommends approval of the submission as presented here.

Substantial changes are proposed by the department. The department has responded to a request, last year, from the Curriculum Committee to deal with problems created by the extensive use of slot courses in fulfilling programme requirements. A major portion of the submission, therefore, involves the establishment of certain courses, previously offered as slots, as regular departmental courses.

The department is also proposing the creation of an Honours programme in Judaic Studies. The department now offers a Major in Judaic Studies but does not offer an Honours programme even though it offers a Judaic Studies M.A. The Judaic Studies Honours has been introduced in part, to eliminate the "embarrassment" that has resulted from the anomalous situation of the department requiring an honours level for admission into the Masters in Judaic Studies without itself offering such a programme. Further justification for the establishment of the Judaic Studies Honours comes from the recent increase in interest in Judaic Studies at Concordia. The Judaic Studies offerings are a flourishing enterprise. The department does not see any need for establishing a parallel Specialization programme.

The Curriculum Committee noted that students in the Honours in Religion programme must choose a 12-credit option in Asian Religion, Christianity or Judaism. It is not the intention of the department to remove this Judaism option. This component was never intended to substitute for a properly conceived Honours programme in Judaic Studies.

The department currently offers both a Minor and a Certificate in Judaic Studies. It is proposed that the separate entries be discontinued in favour of a combined entry headed "Minor or Certificate in Judaic Studies".

Most of the new courses proposed by the department are created from topics that have been given, often routinely, as slot courses or are the result of modifications of existing 6-credit courses. An example of the latter is the case of RELI C376<sup>3</sup>, C377<sup>3</sup>, C378<sup>3</sup> and C379<sup>3</sup> which are created from the two 6-credit courses RELI C364 and C465. The new 3-credit courses are titled and described so as to more accurately reflect the nature of the subject matter previously dealt with in RELI C364 and C465.

Religion (cont'd)

A relatively major new course proposal is the creation of an Honours Seminar in Religion (C499) which will become a requirement in the Honours programme. An analogous course for the Judaic Studies Honours programme (C400 Honours Seminar in Judaic Studies) has also been created. These courses seem entirely appropriate for the Honours programmes.

Appropriate changes to the existing programmes have been made to incorporate the changes in the course offerings.

The Curriculum Committee feels that the department has responded appropriately to the need to rectify the 'slot course' problem, and that the other aspects of the submission are appropriate in terms of the department's development. The Committee felt, however, that some comment was appropriate concerning the relationship of the Religion Department to the Department of Theological Studies. Although recognizing that the two departments bring a different perspective to the study of a number of common issues, the Committee thought that it might be fruitful for the two departments to discuss the possibility of 'consolidating', in some fashion, some of their courses that appear to deal with closely related topics. The Committee was unanimous, however, in its recommendation for approval of the submission at this time. It is the Committee's understanding that Professor Lightstone has already spoken to Professor Ryan with regard to future discussions.

New Programme

60	BA HONOURS IN JUDAIC STUDIES
6	Chosen from RELI C201 <sup>6</sup> , HEBR C210 <sup>6</sup> , C211 <sup>3</sup> , C250 <sup>6</sup> , C251 <sup>3</sup>
6	Chosen from RELI C211 <sup>6</sup> , C213 <sup>6</sup>
6	RELI C222 <sup>6</sup>
9	Chosen from RELI C301 <sup>3</sup> , C326 <sup>3</sup> , C327 <sup>3</sup> , C328 <sup>3</sup> , C330 <sup>3</sup> ,
21	Chosen from RELI C350 <sup>3</sup> , C351 <sup>3</sup> , C352 <sup>3</sup> , C354 <sup>3</sup> , C355 <sup>3</sup> , C356 <sup>3</sup> , C357 <sup>3</sup> , C358 <sup>3</sup> , C395 <sup>3</sup> , C396 <sup>3</sup> , C397 <sup>3</sup> , C398 <sup>3</sup> , C401 <sup>3</sup>
6	Chosen from RELI C302 <sup>3</sup> , C313 <sup>6</sup> , C361 <sup>6</sup> , C362 <sup>6</sup> , C372 <sup>3</sup>
6	RELI C400 <sup>6</sup>

Religion (cont'd)Modified Programmes (To incorporate changes in course offerings)

60 BA HONOURS IN RELIGION

6 RELI C211<sup>6</sup>6 RELI C213<sup>6</sup> or C222<sup>6</sup>

12 From one of the three areas of specialization:

A. Asian Religions:

Chosen from RELI C311<sup>6</sup>, C313<sup>6</sup>, C314<sup>3</sup>,  
 C315<sup>3</sup>, C316<sup>3</sup>, C317<sup>3</sup>, C318<sup>3</sup>, C319<sup>3</sup>,  
 C374<sup>3</sup>

B. Christianity:

Chosen from RELI C301<sup>3</sup>, C302<sup>3</sup>, C361<sup>6</sup>,  
 C362<sup>6</sup>, C363<sup>6</sup>

C. Judaism:

Chosen from RELI C301<sup>3</sup>, C302<sup>3</sup>, C326<sup>3</sup>,  
 C327<sup>3</sup>, C328<sup>3</sup>, C330<sup>3</sup>, C350<sup>3</sup>, C351<sup>3</sup>,  
 C352<sup>3</sup>, C353<sup>3</sup>, C354<sup>3</sup>, C355<sup>3</sup>, C356<sup>3</sup>  
 C357<sup>3</sup>, C358<sup>3</sup>

6 From courses specified in a second area above

6 Chosen from RELI C331<sup>3</sup>, C332<sup>3</sup>, C333<sup>3</sup>, C334<sup>3</sup>,  
 C341<sup>6</sup>, C342<sup>6</sup>, C343<sup>3</sup>, C380<sup>6</sup>6 RELI C499<sup>6</sup>

6 RELI Elective credits at 300 or 400 level

12 Elective credits in RELI or related discipline  
 (in consultation with Departmental Adviser)

Religion (cont'd)

42 BA MAJOR IN RELIGION

- 6 Chosen from RELI C211<sup>6</sup>, C213<sup>6</sup>, C311<sup>6</sup>, C313<sup>6</sup>,  
C314<sup>3</sup>, C315<sup>3</sup>, C316<sup>3</sup>, C317<sup>3</sup>, C318<sup>3</sup>, C319<sup>3</sup>  
6 Chosen from RELI C222<sup>6</sup>, C301<sup>3</sup>, C302<sup>3</sup>, C326<sup>3</sup>,  
C327<sup>3</sup>, C328<sup>3</sup>, C330<sup>3</sup>, C361<sup>6</sup>, C362<sup>6</sup>, C363<sup>6</sup>,

30 RELI Elective credits at 300 or 400 level

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42 BA MAJOR IN JUDAIC STUDIES

- 6 Chosen from RELI C201<sup>6</sup>, HEBR C210<sup>6</sup>, C211<sup>3</sup>,  
C250<sup>6</sup>, C251<sup>3</sup>  
6 Chosen from RELI C211<sup>6</sup>, C213<sup>6</sup>  
6 RELI C222<sup>6</sup>  
9 Chosen from RELI C301<sup>3</sup>, C326<sup>3</sup>, C327<sup>3</sup>, C328<sup>3</sup>, C330<sup>3</sup>  
9 Chosen from RELI C350<sup>3</sup>, C351<sup>3</sup>, C352<sup>3</sup>, C353<sup>3</sup>, C354<sup>3</sup>,  
C355<sup>3</sup>, C356<sup>3</sup>, C357<sup>3</sup>, C358<sup>3</sup>, C395<sup>3</sup>, C396<sup>3</sup>, C397<sup>3</sup>,  
C398<sup>3</sup>, C401<sup>3</sup>  
6 Chosen from RELI C302<sup>3</sup>, C313<sup>6</sup>, C361<sup>6</sup>, C362<sup>6</sup>,  
C372<sup>3</sup>
- - - - -

30 MINOR OR CERTIFICATE IN JUDAIC STUDIES

- 6 Chosen from RELI C211<sup>6</sup>, C213<sup>6</sup>  
6 RELI C222<sup>6</sup>  
9 Chosen from RELI C301<sup>3</sup>, C326<sup>3</sup>, C327<sup>3</sup>, C328<sup>3</sup>, C330<sup>3</sup>,  
9 Chosen from RELI C350<sup>3</sup>, C351<sup>3</sup>, C352<sup>3</sup>, C353<sup>3</sup>, C354<sup>3</sup>,  
C355<sup>3</sup>, C356<sup>3</sup>, C357<sup>3</sup>, C358<sup>3</sup>, C395<sup>3</sup>, C396<sup>3</sup>, C397<sup>3</sup>,  
C398<sup>3</sup>, C401<sup>3</sup>

No more than 12 pro-tanto credits may be applied  
to the fulfillment of requirements in the Minor  
or Certificate in Judaic Studies.

Religion (cont'd)New Courses

Courses that have been created from previously offered slot courses are indicated \*.

Courses that have been created from previously offered regular courses are indicated \*\*.

**\*RELIGION C314****The Buddhist Tradition**

An introduction to the Buddhist tradition examining basic elements present throughout most Buddhist sects, such as: the life of the Buddha; the ethical, intellectual and meditative commitments of the aspirant; worship, and the relation of the Buddhist community to the secular government. (3 credits)

**\*RELIGION C315****Mahayana Buddhism**

A study of the Mahayana Buddhist vision of the ideal life. Principal topics will include the scriptures in which this vision is articulated, the philosophy through which it is systematized, the ethical and meditative practices through which it may be realized, and the eventual state of Buddhahood. (3 credits)

**\*\*RELIGION C316****Chinese Religion**

An examination of the religious life of the Chinese people. Emphasis will be placed upon the way in which each community, family, and individual draws upon the common stock of religious elements (Confucian, Taoist, Buddhist, Shamanistic) to forge a religion suited to its needs. (3 credits)

NOTE: Students who have received credit for RELI C312 may not take this course for credit.

**\*\*RELIGION C317****Tibetan and Japanese Religious Thought and Institutions**

A study of the development of new religious forms from the synthesis of imported religions and indigenous practices in Tibet and Japan. (3 credits)

NOTE: Students who have received credit for RELI C312 may not take this course for credit.

**RELIGION C318****Religion and Art in India, China and Japan**

An introduction to the religious art of India, China and Japan from earliest times to the present. The course will focus upon the relationship between the visual arts (architecture, sculpture and painting) and religious world views and mythological symbols that provide the basis for the artistic form. (3 credits)

Religion (cont'd)

## \*RELIGION C319

## Modern Islam

Prerequisite: RELI C313 or permission of the Department. A study of Islamic religious and social thought in 19th and 20th Century, Islamic liberalism, traditionalism and fundamentalism will be compared and contrasted. (3 credits)

## RELIGION C335

## Religion and Sexuality

A study of religious attitudes towards human sexuality using materials drawn from a variety of religious traditions, with special attention to such topics as: incest taboos, adultery, celibacy, ritualized sexual acts, and patterns of marriage. (6 credits)

## \*\*RELIGION C342

## Religion and Science

An historical investigation of the reasons for the conflict between religion and science in Western culture, and an examination of the chief issues involving both science and religion still under discussion today. (6 credits)

NOTE: Students who have received credit for RELI C443 may not take this course for credit.

## RELIGION C343

## Major Psychological Theories of Religion

This course will focus upon such major psychological theories of Religion as evinced in the writings of William James, Sigmund Freud, C.G. Jung, Erik Erikson and Abraham Maslow. (3 credits)

## \*RELIGION C351

## Judaism in the Hellenistic Age

An examination of the cultural interaction between Judaism and Hellenism from the 3rd Century B.C.E. to the 5th century C.E. Particular attention will be given to modes of cultural fusion and syncretism evident between Jews and various Hellenistic groups both in the Land of Israel and the Diaspora. Topics include: Jewish sectarian movements in the Late Second Commonwealth; Philo of Alexandria; Josephus; Hellenistic Jewish Gnosticism; Jewish magicians and Holy Men; cults of the dead, Judaic art and artifacts. (3 credits)

Religion (cont'd)**\*RELIGION C353****Jews and Christians: the Historical Encounter**

An historical survey of the relationship between Judaism and Christianity. The circumstances of the birth of Christianity and its separation from Judaism will be discussed as well as the development of inter-religious disputation and dialogue. Special emphasis will be given contemporary manifestations of the Judeo-Christian encounter. (3 credits)

**\*RELIGION C354****The Mystical Tradition in Judaism**

A survey of the Jewish mystical tradition, including the development of the messianic idea, Merkava mysticism, Hasidei Ashkenaz, Kabbala in Provence and Spain, Lurianic Kabbala, Sabbatianism and Hasidism. Emphasis in this course will be placed on the study of representative Jewish mystical texts. (3 credits)

**\*RELIGION C355****Modern Jewish Identity**

The questions "Who is a Jew?" and "What does it mean to be a Jew?" arose at the time of the Emancipation, that is, with the entry of Jews into the social, political, and intellectual life of Europe at the end of the 18th Century. This class will explore the models of Jewish identity that were offered from the time of Moses Mendelssohn to the contemporary period. The course will also focus on the intellectual trends as well as the historical events that helped to shape Jewish self-understanding. (3 credits)

**\*RELIGION C356****North American Judaism**

This course will examine the historical development of the Jewish community of North America and analyze the dynamics of Judaism on this continent. Questions to be raised in this course include: Is there an "American" Judaism? In what respect is the North American Jewish experience a continuation of past Jewish experience and in what way is it a new phenomenon in Jewish history? (3 credits)

**\*RELIGION C357****Holocaust I**

This course will examine the historical circumstances that made possible the systematic destruction of European Jewry in the years 1939-45 as well as the process of destruction and the Jewish and world responses to that destruction. (3 credits)

Religion (cont'd)

## \*RELIGION C358

## Holocaust II

This course will examine the theological ramifications of the Holocaust in Jewish and Christian thought. Issues to be discussed include the problem of evil; suffering; the election of Israel; God and His relation to the course of human events. (3 credits)

## \*RELIGION C370

## Death and Dying

A comparative examination of conceptions of death and dying among the major religious traditions. Attention will be paid as well to exploring contemporary notions of death and dying both in so far as we are still informed by traditional conceptions, and to the extent that, for many, such notions have lost their cogency. (6 credits)

## RELIGION C371

## Religion and Healing

An examination of the interaction between religious conceptions and practices on the one hand and healing arts on the other. The course considers such phenomena as: shamanism; healing and Christian shrines; native healing rites, folk medicine of the third world; modern spiritual healing groups; the contemporary dialogue between established forms of medicine, psychiatry and religion in the 20th Century. (3 credits)

## RELIGION C372

## The Human Body in Religious Faith and Practice

A study of 1) the attitudes to the human body in various religious traditions; 2) the impact of the body-mind problem upon religious conceptions of human life and destiny; 3) the body as the foundation of religious symbolism and ritual. (3 credits)

## \*RELIGION C373

## Comparative Mysticism

This course will introduce students to the study of mysticism and mystical experience using materials drawn from a wide range of cultural and religious sources and examining the work of such contemporary theorists as William James, Rudolph Otto, W.T. Stace, R.C. Zaehner and Robert Ellwood. (3 credits)

## \*RELIGION C374

## Islamic Mysticism

Prerequisite: RELI C313 or permission of the Department. A study of the major themes of Islamic mystical thought as expressed in philosophical writings and in poetry. (3 credits)

### Religion (cont'd)

#### \*\*RELIGION C376

##### Religion, Myth and Magic in Classical Antiquity

An examination of the interaction and significance of religion, myth and magic in classical antiquity, in the East and the West, as discernible in such cultures as: Ancient Egypt, Babylon, India, China, Israel, Greece and Rome through the beginnings of the Christian era and the Mediaeval period. (3 credits)

NOTE: Students who have received credit for RELI C364 may not take this course for credit.

#### \*\*RELIGION C377

##### Religion and Occult Ideas in Modern History

An examination of the basic ideas and cultural impact of occult traditions in the modern period from the so-called "Rosicrucian Enlightenment" in the 16th and 17th Centuries, as described by Frances Yates, to the 19th and 20th Century resurgence of occult themes in what Robert Ellwood has called "an alternative reality tradition in the West." (3 credits)

NOTE: Students who have received credit for RELI C364 may not take this course for credit.

#### \*\*RELIGION C378

##### Religion and the History of Psychical Research

A review of the history of psychical research (including discoveries, claims, limitations and problems) from the foundation of the British and American Societies for Psychical Research in the 19th Century through the establishment of contemporary "experimental parapsychology" in the West and behind the Iron Curtain. An evaluation of the possible significance of this material for comparative studies in the philosophies of religion and science. (3 credits)

NOTE: Students who have received credit for RELI C465 may not take this course for credit.

#### \*\*RELIGION C379

##### Religion and Contemporary Psychic Experience

An examination of the contemporary varieties of psychic experience being claimed by persons in the modern world and reported in popular literature, sociological surveys and medical or psychological literature. This material will be critically evaluated in the light of the theories of C.G. Jung, William James and others. (3 credits)

NOTE: Students who have received credit for RELI C465 may not take this course for credit.

Religion (cont'd)

## \*RELIGION C387

## Special Topics in the Philosophy of Religion

Prerequisite: Permission of the Department. This course affords an opportunity for the advanced student to study a special theme or problem in the Philosophy of Religion. (3 credits)

## \*RELIGION C389

## Special Topics in Religious Ethics

Prerequisite: Permission of the Department. This course affords an opportunity for the advanced student to study a special theme or problem in Religious Ethics. (3 credits)

## \*RELIGION C397

## Special Topics in Mediaeval Judaism

Prerequisite: Permission of the Department. This course will examine a selected issue or area of concern in mediaeval Judaism. Possible topics might include: Hasidism, Codification of Halakha, messianic thought and movements. (3 credits)

## \*RELIGION C398

## Special Topics in Modern Judaism

Prerequisite: Permission of the Department. This course will examine a selected issue or area of concern in modern Judaism. Possible topics might include: the rise of Reform Judaism, the encounter between Judaism and modern Philosophy, Zionist thought. (3 credits)

## RELIGION C499

## Honours Seminar in Religion

This course is open only to Honours students in Religion. The student will work with an individual faculty member in a particular field of Religious Studies. The student will be asked to produce a sustained piece of written work to be read by his/her adviser and at least one other member of the Department. (6 credits)

## RELIGION C400

## Honours Seminar in Judaic Studies

This course is open only to Honours students in Judaic Studies. The student will work with an individual faculty member in a particular area of Judaic Studies. The student will be asked to produce a sustained piece of written work to be read by his/her adviser and at least one other member of the Department. (6 credits)

Religion (cont'd)Minor modifications to course descriptions, etc.

The courses affected are listed below.

RELIGION C313 Islam

Course description modified.

RELIGION C325 The Bible and the Ancient Near East

Renumbered as RELIGION C350 to fit in with other courses  
in sequence.

RELIGION C326 Classical Judaism

Description modification

RELIGION C329 Sephardic Judaism

Renumbered as RELIGION C352 to fit in with other courses  
in sequence.

RELIGION C391, C393, C395, C396.

Modified to change them from slot course description  
format to regular course status.

RELIGION C435 Comparative Religious Ethics: West & East

Renumbered as RELIGION C380

Deletions - Attached

FACULTY OF ARTS AND SCIENCE

FORM F

(45)

DIVISION

II

Department RELIGION

for the 1982 - 83

LIST OF COURSE DELETIONS

(Please list all courses deleted from your programmes)

COURSE NUMBER	COURSE TITLE	NO. OF CREDITS
RELI C312	The Religions of China and Japan	6
RELI C364	The Origin of Myth, Ritual and Magic in Western Culture	6
RELI C392	Special Topics in History of Religion II	3
RELI C394	Special Topics in Religion and Culture II	3
RELI C443	Modern Religious and Atheistic Thought	6
RELI C465	Classical Images of Man in Contemporary Psychical Research	6
RELI C492	Special Seminar II	6
RELI C494	Religious Institutions	3
RELI C496	Religious Thinkers	3
RELI C497	Topics in Jewish History	3
RELI C498	Topics in Jewish History	3

FACULTY OF ARTS  
AND SCIENCE OFFICE

FEB 27 1981

RECEIVED

(46)

FACULTY OF ARTS AND SCIENCE

FORM A

UNDERGRADUATE CURRICULUM PROPOSALS

for the 1982 - -- calendar

DIVISION

II

Department

Religion

Please submit a brief summary of the proposed curriculum change(s), your rationale for proposing them, and a statement of budgetary implications (including resources required).

This form must accompany all proposals for curriculum change.

Rationale for Calendar Revisions 1982-83 - Department of Religion

I. General Remarks

The rationale that supports the Department of Religion revisions for the 1982-83 calendar is relatively simple; it reflects both the growth of the Department of Religion (in terms of faculty, numbers of students and programmes) and the past policies of the Curriculum Planning Committee during the period 1970-1980.

In 1970, the number of full time faculty in the Department of Religion was doubled from four to eight faculty (see Appendix I). The curricular offerings for 1970-71, however, were the same as in 1969-70. In the early 1970's the policy of the CPC was one of "weigh and balance"; a "new" course in the curriculum required that an "old" course be revised or dropped. By the middle to late 1970's the full time faculty was increased to nine, with the appointment of one fractional appointment and with the support of many part

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DATE: Feb. 12, 1981

Jeffrey  
Donald Coyne

(Dept. Chairman)

(Provost or  
Divisional Dean)

time positions. To provide flexibility and breadth in curricular offerings and to meet the demands of students, especially in Judaic Studies, the Department introduced a series of "slot" courses, first at the 400-level and then, in 1980, at the 300-level. In 1981-82, for example, 20 out of 35 undergraduate offerings will be given as "slot" courses. The bureaucratic problems of administering and controlling these "slot" courses has caused much difficulty from the level of departmental advisers upward to the Associate Dean of Student Requests and the Registrar of the University. The new proposals seek to remedy this situation.

1. Courses that have been repeatedly taught as "slot" courses are submitted as formal courses to be printed in the calendar.
2. The entire curricular offerings have been rethought and revised; in some cases courses have been dropped, ~~and~~ in other cases courses have been substantially revised in an attempt to rationalize our programmes and offerings to meet the needs of the 1980's.
3. Honours Theses have been introduced at the 490-level seeking an integration of courses and knowledge in preparing honours students for graduate work.
4. An Honours programme in Judaic Studies has been introduced to eliminate the "embarrassment" that has resulted from the fact that the Department requires an honours level for admission into its Judaic Studies M.A. Programme when it does not offer such a programme.
5. "Slot" courses have been retained, but have all been moved to the 400-level. No "repeat-numbers" have been provided. Given the expansion and rationalization of the curriculum, the department feels that the repetition of "slot" courses would be inappropriate. Indeed, we envisage needing slot courses infrequently in the future.

## II. Judaic Studies

The majority of proposed changes relate to the Judaic Studies component of the curriculum. As such some specific remarks in this regard are called for.

Over the last five years dramatic changes have transpired in the area of Judaica within the department. First, the complement of faculty with expertise in Judaic Studies has attained a high degree of stability and continuity. Second, enrollments in Judaica courses have increased noticeably - 40% in the last year alone. This is, to a large degree, due to expansion of our off-campus operation and the total integration of on and off-campus course-offerings.

The present curriculum in Judaica has proven incapable of bearing the burden of success, and the last three years in particular has seen the proliferation of special topic courses to take up the strain. The increased enrollments have vindicated this strategy. But the situation has effected a bureaucratic nightmare, particularly for Dean Baldwin's office. More important, however, the heavy use of special topic courses has undermined the intended structure and 'controls' of the major, minor and certificate in Judaic Studies by allowing overspecialization within the programmes.

The proposal before the committee will solve these problems by transforming the more recurrent special topic courses into 'regular' offerings with their own idiomatic course-numbers, by integrating these courses into the Judaica programmes and by limiting in the future the use of "slot" courses in accordance with the proposed protocol to be considered by Faculty Council in March of this year.

THERE ARE NO BUDGETARY IMPLICATIONS IN THESE CHANGES.

**Recommendation to Discontinue Programmes**

A memo from Professor Miller (former Coordinator of Asian Studies) dated January 28, 1980 is attached. A more recent memo from Assistant Provost T. Gray to Provost Singer (January 15, 1981) brought the situation more up-to-date.

Nothing has happened between January 15, 1981 and the present to alter the views expressed.

The Curriculum Committee recommend the termination of the Asian and Third World Studies programme. In making its recommendation the Committee noted that the "probationary period" seems to have been long enough to allow for the possible emergence of any renewed interest.

TG:cab

he thought other programmes could handle the student's needs. In recent years there have been so few students that the usefulness of the programme is extremely doubtful. Termination of the USP is recommended.

So far as Para-Academic activity was concerned it was felt that students who feel that they should get some credit for extra or co-curricular activities should register for a departmental "directed readings" or "directed research" course. Their particular interests might also be the basis for a term paper or research report that is supervised and graded under the aegis of a regular departmental course. Academic credit would, therefore, be granted for academic work.

The Self-Elected Specialization still seemed to be a viable enterprise. It was noted that, in spite of the wealth of opportunities opened up by Division IV there was still no opportunity to follow an "unlabelled" interdisciplinary programme. It was thought that there was still a role for a carefully selected set of courses organized around a theme and core curriculum which could be constructed to create an 'unconventional' but academically sound specialization.

The situation has not changed since Gray's report in July, 1980. On the basis of this report on the status of the ISP the Curriculum Committee recommends the discontinuance of the Undergraduate Scholars Programme and the Para-Academic Activity classification.

B. Asian and Third World Studies

The status of the Asian and Third World Studies programme has been "under review" for more than a year. As of January 15, 1981, there were a total of 11 students enrolled in either Asian Studies or Third World Studies programmes. No-one could be found to be Coordinator for the programme.

H9

## Recommendation to Discontinue Programmes

### A. USP, and Para-Academic Options of the Individual Studies Programmes (ISP)

The Curriculum Committee was asked to consider a recommendation to terminate the Undergraduate Scholars Programme and the Para-Academic Activity classification.

T. Gray, Assistant Provost, presented a recommendation concerning the Individual Studies Programmes (USP; Self-Elected Specialization, and Para-Academic Activity) to Provost Martin Singer on July 23, 1980. The report was based on a review of the number of students enrolled in aspects of the ISP, and on discussions with members of the ISP Coordinating Committee. The report ended by recommending termination of the USP and Para-Academic aspects. It was recommended that the Self-Elected Specialization programme be maintained.

#### Summary of Gray's report to Singer

##### Enrolments

1. Only 2 students registered in USP.
2. Between 4 and 6 students in Self-Elected Specialization.
3. Only 2 students recently registered for Para-Academic credit.

##### People consulted

Professor R. Hall (Mathematics)  
Professor E. Egan (Philosophy)  
Professor H. Shulman (Liberal Arts College)  
Professor S. Mullett (former Coordinator of ISP). See letter from Prof. Mullett attached)

##### Recommendations

None of the people talked to had any enthusiasm for the USP. Professor Hall's comments included a statement that

Curriculum submissions listed  
alphabetically by department or programme

APPLIED SOCIAL SCIENCE

1. The Department of Applied Social Science proposed a new course APSS C463<sup>6</sup> Adulthood: Patterns and Transitions

Prerequisites: APSS C212<sup>6</sup> and APSS C351<sup>3</sup>; permission of the instructors. The course addresses the phenomenon of adult development from early adulthood through maturity. The focus is on both the content of the life changes observed, and on the process of change from one life stage or period to another. Participants will explore the patterns of change in their own lives and relate these patterns to contemporary theories of adult development. The relationship of life changes to cultural and historical features of the times, and to working in social systems as helping professionals will also be examined. Thus, autobiographical accounts of class participants, and existing research evidence describing normative life changes, reactions to these, and the nature of the change process will be integrated in the evaluation of relevant theory. (6 credits)

The departmental rationale for the course is attached. The Committee notes that the course has been presented as a special seminar for two years and that research is ongoing in the department that is relevant to such a course (Dr. M. Taylor and Dr. D. Haccoun).

The Committee approves the proposal.

2. The Committee also approves the proposal to create a 6-credit, 400-level slot course with a repeat number, and a 200-level, 3-credit slot course, also with a repeat number.

The Committee feels that the growth of the department in recent years warrants the creation of the slots to allow more opportunity to schedule courses relevant to the interests of the much increased faculty. The courses are as follows:

**APPLIED SOCIAL SCIENCE C360**

**Special Seminar in Applied Social Science**

Prerequisite: Permission of the Department. The subject for the seminar will vary from year to year reflecting recent developments in social change, new approaches in the behavioural sciences, or the special interests of the instructor. (3 credits)

APPLIED SOCIAL SCIENCE (cont'd)

## APPLIED SOCIAL SCIENCE C361

## Special Seminar in Applied Social Science

Prerequisite: Permission of the Department. Students who have received credit for APSS C360 may register for APSS C361 provided that the subject matter is different. (3 credits)

## APPLIED SOCIAL SCIENCE C473

## Special Seminar in Applied Social Science

Prerequisites: PSYC C200<sup>6</sup>, SOCI C200<sup>6</sup>, and permission of the Department. The subject for the seminar will vary from year to year reflecting recent developments in social change, new approaches in the behavioural sciences or the special interests of the instructor. (6 credits)

## APPLIED SOCIAL SCIENCE C474

## Special Seminar in Applied Social Science

Prerequisites: PSYC C200<sup>6</sup>, SOCI C200<sup>6</sup>, and permission of the Department. Students who have credit for APSS C473 may register for APSS C474 provided that the subject matter is different. (6 credits)

3. The Department would like to delete POLI C370 Problems and Concepts in Political Theory as a requirement in the BA Major in Social Welfare, and add POLI C200 Introduction to Political Science.

The argument is that POLI C370 is the descendant of POLI N210 which was an introductory type of course. Year-by-year changes in the nature of Problems and Concepts in Political Theory have made it inappropriate for the Social Welfare Major. The current Introductory Political Science course C200 is, however, appropriate. Students with credit for, or exemption from, POLI C200 will be required to take another Political Science course chosen in consultation with the programme adviser.

4. The Committee recommends approval of the proposed change in prerequisites for APSS C431 and C441. The prerequisites will read as follows:

APPLIED SOCIAL SCIENCE C431

Group Development and Supervision

Prerequisite: APSS C212<sup>6</sup> and C351<sup>3</sup> (6 credits)

APPLIED SOCIAL SCIENCE C441

Community Development

Prerequisite: APSS C212<sup>6</sup> or permission of the Department. (3 credits)

5. The Committee discussed other problems arising from changes in prerequisites to SOCI C401 (a requirement of the Applied Social Science Major and Specialization). The Department has worked out ad hoc arrangements for an appropriate substitution for the course with Asst. Dean Baldwin. The Committee recommends that these ad hoc arrangements continue for one more year because it is "the Department's (APSS) earnest intention" to present, for next year (1983-84), a proposal based on a complete curriculum review.

UNDERGRADUATE CURRICULUM PROPOSALS

for the 19 82 - 83 calendar

DIVISION

II

Department Applied Social Science

Please submit a brief summary of the proposed curriculum change(s), your rationale for proposing them, and a statement of budgetary implications (including resources required).

This form must accompany all proposals for curriculum change.

RE: ApSS C463<sup>6</sup> - ADULTHOOD: PATTERNS AND TRANSITIONS

The central emphasis in this course is the experience of change or transition in adult life, a phenomenon which is becoming an increasingly common concern of people in the community with whom we work. This, in combination with the fact that direct work with adults in community serving organizations is, if anything, increasing, makes an understanding of issues and challenges facing adults tremendously important to the helping professionals.

Students of Applied Social Science have for many years had available to them courses which promote an understanding of adolescence (ApSS C413<sup>6</sup> and Psyc C391<sup>3</sup>) and senescence (ApSS C321<sup>3</sup>). A course focusing on adulthood, designed specifically as a part of the degree programs in our Department is at this moment 'overdue'.

The course here proposed as a regular offering in Applied Social Science has been developed and instructed for two years (1979-1980 and 1980-1981) as the Department's Special Seminar, ApSS C481<sup>0</sup>. As evident in the accompanying course description the approach taken has been uniquely and especially suited for students in Applied Social Science in that it is experienced-based and practice-related. The study of change and transitions in adult life is based on autobiographical work by learners as well as investigation of theory and research generated in this area of social inquiry to date. Second, the course includes not only an exploration of the phenomenon of adult life change but also attends to the implications for community and social service practitioners in their work with adults. The course has been designed and developed by faculty with an expertise in adult learning (Dr. M. Taylor) and in developmental psychology (Dr. D. Haccoun). The proposed course is associated with forthcoming research to be undertaken by Drs. Haccoun and Taylor.

Budgetary implications - none. Instructors available to teach the course are already members of the Department of Applied Social Science. The number of credits required for the Major in Applied Social Science or Specialization has not been altered, and this course would be listed among numerous alternative ApSS electives for the Major Specializa-

DATE: February 12, 1981

Sylvia Carter (Dept. Chairman  
Ronald Beoyte (Provost or  
Divisional Dea

## Chemistry

The Curriculum Committee recommends the approval of the Chemistry Department's curriculum submission.

The Committee notes that the departmental submission is mostly "housekeeping" in nature.

The ten "new" courses proposed by the department are in fact not new - in that they are created from modifications to existing offerings or are repeat numbers added to existing Selected Topics courses. The department's summary of the proposed changes is attached. A list of the courses deleted is also attached.

### 1. New courses

CHEMISTRY C302 ("Replacement" for CHEM C327)

Industrial Chemistry, Resources and Environment

Prerequisite: Must be within 42 credits of graduation in a Chemistry programme, or permission of the Department. An introduction to chemical engineering for chemists. Management and conservation of resources; pollution control; occupational and environmental health; technological and environmental impact assessment. (2 credits)

CHEMISTRY C303 ("Replacement" for CHEM C343)

Chemical Technology and Human Values

Prerequisite: Must be within 42 credits of graduation in a Chemistry programme; or permission of the Department. The history of technology; the impact of chemistry on material life; appropriate technologies; chemistry and war; the social responsibility of the scientist. (2 credits)

CHEMISTRY C335 ("Replacement" for CHEM C435)

Physical Chemistry of Polymers

Prerequisite: CHEM C222 and C232. Physical properties of polymers; polymer solution theory; molecular weight distributions and fractionation; molecular weight determinations by colligative properties, light scattering and ultra-centrifuge techniques; kinetics of condensation and addition polymerizations; copolymerization. Lectures only. (2 credits)

NOTE: Students who have received credit for CHEM C435 may not take this course for credit.

Chemistry (cont'd)

CHEMISTRY C372 and C373 - modification of CHEM C371

CHEMISTRY C372

Introductory Biochemistry I

Prerequisite: CHEM C222 and, for Biochemistry students, CHEM C232. Thermodynamics and the role of ATP; structure and function of proteins and nucleic acids including protein structure, enzymology, replication of DNA, transcription and translation of DNA. Lectures and laboratory. (3 credits)  
NOTE: Students who have received credit for CHEM C371 may not take this course for credit.

CHEMISTRY C373

Introductory Biochemistry II

Prerequisite: CHEM C372. Intermediary metabolism, including biosynthesis and degradation of carbohydrates, lipids and amino acids; bioenergetics and photosynthesis. Lectures and laboratory. (3 credits)

NOTE: Students who have received credit for CHEM C371 may not take this course for credit.

CHEMISTRY C423

Selected Topics in Organic Chemistry

Prerequisite: CHEM C321 and C322. In-depth study of a topic of current interest. Topics may be from the areas: Heterocyclic Chemistry, Organic Photochemistry, Advanced Organic Synthesis, Theoretical Organic Chemistry, Physical Organic Chemistry, Organic Spectroscopy. Lectures only. (3 credits)

CHEMISTRY C424            Repeat number for CHEM C423

Selected Topics in Organic Chemistry

Prerequisite: Permission of the Department. A student who has received credit for CHEM C423 may register for CHEM C424, provided the subject matter is different. Lectures only. (3 credits)

CHEMISTRY C437            Repeat number for existing CHEM C432

Selected Topics in Physical Chemistry

Prerequisite: Permission of the Department. A student who has received credit for CHEM C432 may register for CHEM C437, provided the subject matter is different. Lectures only. (3 credits)

Chemistry (cont'd)

CHEMISTRY C443            Repeat number for existing CHEM C441

Selected Topics in Inorganic Chemistry

Prerequisite: Permission of the Department. A student who has received credit for CHEM C441 may register for CHEM C443, provided the subject matter is different. Lectures only. (3 credits)

CHEMISTRY C477            Repeat number for existing CHEM C472

Selected Topics in Biochemistry

Prerequisite: Permission of the Department. A student who has received credit for CHEM C472 may register for CHEM C477, provided the subject matter is different. Lectures only. (3 credits)

The Committee noted that the repeat numbers are separated from the course numbers by intervening numbers that have been used for existing courses. More inconvenience would be created by renumbering the appropriate courses to allow for successive numbering than is entailed in having the 'gaps' in the sequence.

2. Courses that are affected by the "housekeeping" changes

CHEM C208, C211, C231, C232, C280, C282, C311, C312,  
C316, C317, C328, C331, C332, C333, C338, C339,  
C380, C390, C399, C421, C450, C470, C471, C473,  
C474, C475, C479, C490

The changes are modifications to the course descriptions or changes to the prerequisites that are necessitated by other course changes.

For the Chemistry Department, the proposed curriculum changes are of several different types:

- (a) Course Deletions: Some of the courses (C411, C416, C427) are no longer taught within the Department, because of the death of Prof. J.A. Lenoir; some of the courses (C327, C343) were taught by a part-time professor who is being transferred to Toronto; two courses (C334, C436) can in future be taught under the umbrella of C432 (Selected Topics in Physical Chemistry); C371 is being deleted only in order to break it up into two 1-term courses, to accomodate the Chemistry Co-operative Programme; and C435 has been deleted because it is being renumbered as C335, and reduced to 2 credits, in the hope that the lower-level, somewhat less sophisticated course might attract more students to this important applied subject.

These course deletions should have positive budgetary implications, as will be seen later on in this submission.

- (b) Course Changes: The changes made in the course descriptions are for the most part merely "housekeeping" changes, to reflect natural evolution of teaching practice. Also, there have been a number of changes in prerequisites, to take account of course deletions. One course (C380) has had its title changed, in order to better describe the course as it is now structured, and as it will be taught in the future. Some courses in advanced biochemistry have had their prerequisites changed slightly, but not so severely that enrollment would be affected.

There would appear to be no budgetary considerations involved in these course changes.

- (c) Course Additions: A total of ten new courses have been proposed. Two courses (C302, C303) are designed to replace two deleted courses (C327, C343), but have been structured in a way such that at least one of them (C303) can be taught by a full-time member of faculty, rather than a part-time faculty member. From the point of view of our students having some degree of contact with "the real world", this is regrettable; but we also recognize the obviously positive budgetary considerations.

It will be realized that one course (C302) might still be taught by a part-time member of Faculty, because of the expertise required.

One course (C335) is merely the re-numbering of a deleted course (C435): the rational behind this move has been indicated in section (a) of this summary.

Two new 1-term courses in Biochemistry (C372, C373) are proposed, to replace the now-deleted C371. This division has been done so that the biochemistry students can be accommodated in the CO-OP programme.

One new course in advanced organic chemistry (C423) has been proposed. This "selected topics" course has been added because the Department has realized that there should be a "selected topics" course in each of the four main sub-disciplines within Chemistry, to be able quickly to take advantage of the special expertise of scientists visiting the Department temporarily or otherwise specially available (e.g. adjuncts).

Four courses (C424, C437, C443, C477) have been proposed to complement the idea expressed in the previous paragraph. The courses would be in place if needed, but it is not envisioned that these "second numbers" would be used frequently. But we would rather have them, and not use them, than not have them, and find suddenly that we need one, to accommodate one or more senior undergraduates.

For these last 8 new courses, we do not foresee any budgetary considerations, either positive or negative.

The sum of all the new courses proposed, results in a net decrease of one 1-term course being taught by a part-time Faculty member.

(d) Programme Changes: In two cases (Major in Chemistry, Major in Biochemistry) the changes are very minor, and reflect the deletions and additions that have already been tabulated in this preliminary write-up. There should be no budgetary considerations whatever attached to these changes.

One significant change is in the Specialization in Biochemistry, which, aside from reflecting the changes proposed re deletions and new courses, have had some laboratory courses (C338, C339) moved from second to third year, to give the student a more balanced course of studies during his 3-year tenure; and also it is now spelled out that a student may register in the third year for C450 (the undergraduate research project). In the old programme this was not made clear, and a fair amount of paperwork could result.

Again, there are no budgetary implications that we can foresee in any of these Programme changes.

## Communication Studies

The Curriculum Committee recommends approval of the minor modifications suggested by Communication Studies.

1. Addition of a note to appear in the calendar before listing of COMS C307<sup>3</sup>. The note will read: COMS C307<sup>3</sup> through C316<sup>3</sup> are offered on a three-year cycle.
2. Addition of the following prerequisite to COMS C471<sup>3</sup>  
Prerequisite: Open only to students in Communication Studies programmes.
3. Splitting of COMS C304<sup>6</sup> (Media and Media-Culture) into two three-credit courses as indicated below:

### COMMUNICATION STUDIES C322

#### Media and Media Culture

Prerequisite: Open only to students in Communication Studies programmes. Media and their impact on people and society, in order of historical appearance: literacy, printing, the still photograph, cinema, radio, television. The growth of the technologies of work, movement, education, thought, and social organization. The problems of the human in a technological environment. (3 credits)

NOTE: Students who have received credit for COMS C304 may not take this course for credit.

### COMMUNICATION STUDIES C323

#### Media Theory

Prerequisite: COMS C322. Analyzing the historical and current evidence in an attempt to understand what media are; what they do of themselves; what are their common characteristics, their cumulative patterns, apparent irreversible growth, and necessary effects. Are there inherent "laws" of media? The aim of the course is understanding not practical utility. (3 credits)

NOTE: Students who have received credit for COMS C304 may not take this course for credit.

The Committee thinks that some further editorial change might be appropriate to clarify the course description for COMS C323.

4. The Committee would like to remind Council that the new programme BA Specialization in Broadcast Journalism that was approved last year, but held back from implementation, has now been implemented. An addendum to the 1981-82 calendar has been circulated, and students are being admitted for September, 1981.

ECONOMICS

The curriculum change proposal from the Department of Economics for the 1982-83 calendar consists only of changes in course descriptions and course titles. The changes are suggested in order to clarify the nature of the courses and to more accurately indicate the material taught.

The Curriculum Committee had no objection to the proposed modifications. The courses affected are listed below:

ECON C323	Course description modified
ECON C381	" " "
ECON C481	" " "
ECON C442	Title change from <u>International Economics I</u> to <u>International Trade Theory</u> . No change in course description.
ECON C443	Title change from <u>International Economics II</u> to <u>International Finance</u> . No change in course description.

## English

The Curriculum Committee recommends approval of only part of the English department's submission.

### PART A

The Committee recommends approval of Part A which deals with an economical new version of slot course offerings.

ENGL C444, C445, C448, C449, C456, C457, C464, C468, C479 will be deleted in favour of slot course offerings as indicated below.

#### ENGLISH C382

##### Special Studies in Literature

Prerequisite: A period course in the area involved. A course devoted to a special topic, particular author or period of literary concern. The author, topic or period will vary from year to year. (6 credits)

#### ENGLISH C383

##### Special Studies in Literature

Prerequisite: A period course in the area involved. A course devoted to a special topic, particular author or period of literary concern. The author, topic or period will vary from year to year. (3 credits)

#### ENGLISH C384

##### Repeat number

##### Special Studies in Literature

A student repeating ENGL C383 for credits registers under ENGL C384. (3 credits)

At the '400' level the proposal is to add a 6-credit "Seminar in a Special Subject" and a 3-credit "Seminar in a Special Subject", both with repeat numbers.

#### ENGLISH C486

##### Seminar in a Special Subject

Prerequisite: Second-year standing. This course is designed to provide an opportunity for study and discussion of literature at a relatively advanced level. It is taught, from year to year, by different members of the English Department, and the subject changes to accord with the special interests of each instructor. (6 credits)

#### ENGLISH C487

##### Repeat number

##### Seminar in a Special Subject

Students who have received credit for ENGL C486 may register for ENGL C487 provided the subject matter is different (6 credits)

**ENGLISH C488****Seminar in a Special Subject**

Prerequisite: Second-year standing. This course is designed to provide an opportunity for study and discussion of literature at a relatively advanced level. It is taught, from year to year, by different members of the English Department, and the subject changes to accord with the special interests of each instructor. (3 credits)

**ENGLISH C489****Repeat number****Seminar in a Special Subject**

Students who have received credit for ENGL C488 may register for ENGL C489 provided the subject matter is different. (3 credits)

The Curriculum Committee also recommended approval of the changes to existing courses as indicated below:

1. ENGLISH C259<sup>6</sup> (Literature: Ideas and Myths) and ENGLISH C260<sup>6</sup> (Myth in Literature)

are to be consolidated into:

**ENGLISH C260<sup>6</sup> (Myth and Ideas in Literature)**

The sources, literary development and continuing functions of some of the myths which generate our ideas, and some of the ideas which rationalize our myths. In various years the emphasis may be on the history, structure, or continuing creation of myth and idea. (6 credits)

NOTE: Students who have received credit for ENGL C259 may not take this course for credit.

2. Deletion of note from ENGL C316 (Spenser). The note at present reads "This course may not be taken for credit with ENGL C315"(English Renaissance Literature). The department has determined that the specific study of Spenser should not preclude a more general study of English Renaissance Literature.
3. The titles for ENGL C295<sup>3</sup> and C296<sup>3</sup> will be changed to read "Commonwealth and Third World Literature Written in English I and II"respectively.
4. Other minor editorial changes are to be made to ENGL C499, C484 and C459.

English(cont'd)PART B

(i) The Curriculum Committee does not recommend approval of the department's proposal for the following new courses:

ENGLISH C388

Advanced Translation

Prerequisite: ENGL C255 or permission of the Department. Advanced work in the theory, skills and techniques of translating texts in the humanities, social sciences and public affairs. This course endorses the concept that competent translators can apply acquired skills to a wide spectrum of the large number of texts which require conversion into the English language. (6 credits)

ENGLISH C415

Creative Writing: Translation

Prerequisite: Fluency in English and one other language and one of ENGL C225, C226, C227, or permission of the Department. Advanced work in the skills and techniques of translating literary texts in all genres. Emphasis will be on translation from French to English, but other languages will also be involved, depending on the language skills of both instructor and students. This is a workshop that aims at the training of professional translators in the field of literature. (6 credits)

Rationale for negative recommendation

The Committee communicated its misgivings about the courses to Professor Broes, but the department was not willing to withdraw the proposals.

In reaching its decision not to recommend approval the Committee noted that there were a number of courses already offered in the French Department that dealt, at various levels, with translation "du français à l'anglais" and "de l'anglais au français". In a more general vein the Committee felt that such courses were perhaps not the province of the English department, and perhaps belonged more logically in a Linguistics framework.

(ii) The Curriculum Committee does not recommend approval of the department's proposal for the following new course and modification of an existing course.

English (cont'd)

ENGL C411<sup>6</sup> is currently offered with the title "Script Writing for Radio, Screen, and Television". The proposal is to retitle this course as "Script Writing for Radio" and to create a new course ENGL C414 "Script Writing for Screen and Television".

The department's rationale for this is that Radio is a very different medium from Screen and Television.

Rationale for negative recommendation

Although ENGL C411 as Script Writing for Radio, Screen, and Television" was approved previously, the Committee feels that such courses more properly belong in Communication Studies (where similar courses now exist). It was suggested at the Committee meeting that extra sections of Communications Studies courses in the script writing areas might be made available to meet any demand from English department students. Perhaps such sections might be taught by English professors with special interest and expertise in these areas. These professors might be considered to be "on loan" to or "recycled" into the Communications Studies programme.

Note: The English department's response to the Curriculum Committee's comments is attached.



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TO T. Gray, Acting Asst. Dean Curriculum, Faculty of Arts & Science  
FROM A. Broes, Chairman, Department of English  
DATE April 15, 1981

This is in response to your memos to me of April 8 and 13.

A note should be added to the new ENGL C260 Myth and Ideas in Literature but I would prefer that it read: "Students who have taken ENGL C259 may not take this course for credit."

The correct title for ENGL C295 and C296 is "Commonwealth and Third World Literature Written in English, I & II". This change is to allow the inclusion of authors from Caribbean and African countries no longer members of the Commonwealth.

The proposed ENGL C388 Advanced Translation is intended as a continuation or follow-up to our already existing course ENGL C255 Translation. The latter course was offered this year at the urging of Professor Albert Jordan, the former coordinator of the translation programme in the French Department, who also encouraged us to offer more courses in this area.

As in ENGL C255 the emphasis in this proposed course would be on translation from French to English. The proposed ENGL C415 Creative Writing: Translation is a course for Creative Writing students with no prerequisite which might involve translations into English from other languages in addition to French. Since translation in both these courses is primarily an imaginative, literary exercise, they are clearly not within the province of Linguistics, as you suggest in your memo.

While it is true that the Communication Studies Department does offer courses in Script Writing, these are primarily, if not exclusively, for students in Communication Studies, while our proposed course, ENGL C414 Script Writing for Screen and Television, is intended for Creative Writing students. "Farming out" English Department professors to teach Communication Studies courses in these areas would seem to me to be a bureaucratic, cumbersome and generally unworkable arrangement.

I concur with the Committee's refusal to accept the proposed change in the course description of ENGL C209, Elements of Written English. I also have questions as to how this course is to be implemented. Doing so would be especially difficult this coming academic year since our coordinator in composition, Professor Opala, has resigned, and a new coordinator has yet to be selected.

3:na

FACULTY OF ARTS AND SCIENCE

FORM F

(68)

DIVISION

Department ENGLISHLIST OF COURSE DELETIONS

(Please list all courses deleted from your programmes)

COURSE NUMBER	COURSE TITLE	NO. OF CREDI
English C442	World Literatures Written in English	3
English C443	World Literatures Written in English	3
English C444	Special Studies in American Lit. I	3
English C445	Special Studies in American Lit. II	3
English C448	Special Studies in Canadian Lit.	3
English C449	Special Studies in Canadian Lit.	3
English C456	Special Studies in Modern Fiction	3
English C457	Special Studies in Modern Fiction	3
English C464	Special Studies in Children's Lit.	3
English C468	Special Studies in Drama	3
English C479	Special Studies in English Lit.	3
English C259	Literature: Ideas and Myths	6

### Exercise Science

The Curriculum Committee recommends approval of the submission from Exercise Science.

1. For the most part the changes suggested are of a routine nature and involve modifications to course descriptions, course prerequisites, and course numbers.
2. An important change however, is that the following courses will be relabelled.

EXCI C241	becomes	LEIS C241
EXCI C342	"	LEIS C342
EXCI C426	"	LEIS C426
EXCI C464	"	LEIS C464

This relabelling of courses has been anticipated for a long time and is consistent with the course content and the role the courses play as the core of the Recreation and Leisure Studies programme.

3. The Committee also noted that changes to EXCI C370, C470 and EXCI C472 went beyond what are usually considered editorial modifications.

The new descriptions for these courses are given below

#### EXERCISE SCIENCE C370

##### Outdoor Recreation and Leadership

This course is focused on using and understanding environment as a recreation setting. Learning by experience will be emphasized. The course is directed to people who may be using the outdoors for recreation or education in the future, either as leaders or administrators. Consequently, the overall goals are to develop leadership capabilities and to give a broad awareness of the potential uses of the outdoors for recreation and education. Lectures: 3 hours per week. Laboratory: Weekends to be arranged. Alternate summers. (6 credits)

Exercise Science (cont'd)

EXERCISE SCIENCE C470

Scientific Principles of Outdoor Education

The course offers a comprehensive analysis of outdoor education. The aims and objectives of outdoor education are examined; organization and administration of model programmes are analyzed; innovative units of instruction and outdoor education programmes are evaluated. Students will plan, teach and participate in outdoor learning experiences. Lectures, laboratories, seminars and field study. (6 credits)

EXERCISE SCIENCE C472

Outdoor Education - Administration and Implementation

The course explores use of the out-of-doors to enrich the school curriculum. In addition, outdoor education as a strategy in the wider context of education is examined. Students will receive instruction in skills necessary for planning, administering and implementing outdoor education programmes. The philosophical base for this educational approach will be assessed, particularly as it pertains to interdisciplinary methods in the elementary and high school curricula. Field study and laboratories will supplement classroom instruction. 3-4 week summer course. Alternate summers. (6 credits)

Professor Sellers provided the Committee with a further rationale for the changes to these courses.

"The courses EXCI C370, C470 and C472 are required courses for the Certificate Programme in Outdoor Education. The course content included within the 18 credits assigned to these courses has been redistributed to suit the student needs and interests. Shifting content from one course to another is also based on the availability of facilities and equipment, not to mention part-time faculty. The end result is an EXCI C370 course that is more attractive as an undergraduate elective and a better sequencing of content for students in the Certificate in Outdoor Education Programme."

4. Renumbered courses

EXCI C351	becomes	EXCI C253
EXCI C355	"	EXCI C255
EXCI C211	"	EXCI C311
EXCI C315	"	EXCI C413
EXCI C415	"	EXCI C316

5. Minor modifications

Courses affected are as follows: EXCI C201, C261, C310, C313, C342, C353, C357, C401, C411, C421, C426, C436, C451, C453, C455.

## GEOGRAPHY

The Committee recommends the approval of the changes proposed by the Geography Department.

The Department's general rationale is attached. As noted by the Department the changes result in a net reduction in the Departmental offerings. The creation of the labelled slot courses will allow the Department to offer appropriate topics from year to year for students to fill the requirements in the Cultural-Historical or Economic-Urban 'streams' in their final year. These slots will be taught by full-time faculty members.

### 1. New courses

The new courses proposed are as listed below. The courses deleted from the programmes are listed separately at the end of this report.

#### GEOGRAPHY C361

##### Introduction to Geographical Research

Prerequisite: 6 credits in Geography, or permission of the Department. The course will introduce students to the methods and techniques used to acquire original geographical information in the field, laboratory, and archives. The course includes a week-end field camp. (3 credits)

#### GEOGRAPHY C369

##### Field Studies in Geography

Prerequisite: GEOG C361, or permission of the Department. A field course in which a selected area is intensively studied. (3 credits)

#### GEOGRAPHY C410

##### Topics in Cultural Geography

Prerequisite: GEOG C316 and one of GEOG C312, C317, C325, or permission of the Department. Subject matter will vary from year to year, depending on the interest of the Instructor. The course will provide opportunities to senior students for discussion and advanced study. (3 credits)

#### GEOGRAPHY C411 (Repeat number for GEOG C410)

##### Topics in Cultural Geography

Students who have received credit for GEOG C410 register under GEOG C411 for credit, provided the subject matter is different. (3 credits)

## GEOGRAPHY (cont'd)

### GEOGRAPHY C420

#### Topics in Historical Geography

Prerequisite: GEOG C325 and one of GEOG C312, C316, C317, or permission of the Department. Subject matter will vary from year to year depending on the interests of the Instructor. The course will provide opportunities to senior students for discussion and advanced study. (3 credits)

### GEOGRAPHY C421 (Repeat number for GEOG C420)

#### Topics in Historical Geography

Students who have received credit for GEOG C420 register under GEOG C421 for credit provided the subject matter is different. (3 credits)

### GEOGRAPHY C430

#### Topics in Urban Geography

Prerequisite: GEOG C331 or permission of the Department. Subject matter will vary from year to year depending on the interests of the Instructor. The course will provide opportunities to senior students for discussion and advanced study. (3 credits)

### GEOGRAPHY C431 (Repeat number for GEOG C430)

#### Topics in Urban Geography

Students who have received credit for GEOG C430 register under GEOG C431 for credit provided the subject matter is different. (3 credits)

### GEOGRAPHY C450

#### Topics in Economic Geography

Prerequisite: GEOG C358 and C359, or permission of the Department. Subject matter will vary from year to year, depending on the interests of the Instructor. The course will provide opportunities to senior students for discussion and advanced study. (3 credits)

### GEOGRAPHY C451 (Repeat number for GEOG C450)

#### Topics in Economic Geography

Students who have received credit for GEOG C450 register under GEOG C451 for credit provided the subject matter is different. (3 credits)

GEOGRAPHY (cont'd)

## GEOGRAPHY C470

## Topics in Physical Geography

Prerequisite: 12 credits from GEOG C371, C372, C373, or permission of the Department. Subject matter will vary from year to year, depending on the interests of the Instructor. The course will provide opportunities to senior students for discussion and advanced study. (3 credits)

## GEOGRAPHY C471 (Repeat number for GEOG C470)

## Topics in Physical Geography

Students who have received credit for GEOG C470 register under GEOG C471 for credit provided the subject matter is different. (3 credits)

2. Minor changes to titles, course descriptions, prerequisites and notes.

The courses affected are listed below:

## GEOGRAPHY C266 Maps and the Presentation of Statistical Data II

## Editorial changes and addition of note:

"NOTE: Students who have taken GEOG C262 may not take this course for credit".

## GEOGRAPHY C271 The Natural Environment

## Addition of note:

"NOTE: Students who have taken either GEOG C275 or C276 may not take this course for credit".

## GEOGRAPHY C275 Climate and the Biosphere

## Addition of note:

"NOTE: Students who have taken GEOG C271 may not take this course for credit".

## GEOGRAPHY C276 Landforms and the Biosphere

## Addition of note:

"NOTE: Students who have taken GEOG C271 may not take this course for credit".

GEOGRAPHY (cont'd)

## GEOGRAPHY C412 Political Geography

Change in number, modification of course description and change in credit value, as follows:

## GEOGRAPHY C312 Political Geography

Prerequisite: GEOG C211 or permission of the Department. The course will be structured around traditional and contemporary themes in political geography. Emphasis will be on the political/administrative organization of space, the interrelationships between politics and environment, electoral geography, and the geographical aspects of public policy. (3 credits)

## GEOGRAPHY C316 Cultural Geography

Change in credit value from 6 credits to 3 credits.

## GEOGRAPHY C325 Introduction to Historical Geography

Modification of course description

## GEOGRAPHY C358 Economic Geography I

Modification of course description. Delete note.

## GEOGRAPHY C359 Economic Geography II

Modification of course description. Delete note.

## GEOGRAPHY C433 Applied Urban Geography

Modification of course description

## GEOGRAPHY C491 Research Methods

Change in title and course description, as follows:

## GEOGRAPHY C491 Honours Thesis

Prerequisite: Final year standing in Honours Geography. The course will require the student to propose and conduct a research project and to produce a substantial report under the supervision of a faculty adviser. (6 credits)

FEB 23 1981

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FACULTY OF ARTS AND SCIENCE

FORM A

UNDERGRADUATE CURRICULUM PROPOSALS

for the 1982-83 -- calendar

DIVISION

II

Department Geography

Please submit a brief summary of the proposed curriculum change(s), your rationale for proposing them, and a statement of budgetary implications (including resources required).

This form must accompany all proposals for curriculum change.

The proposed changes are an attempt to simplify and restructure the B.A. programmes in Geography, programmes that have remained substantially unchanged for more than 10 years, except for new course additions. The proposed new B.A. curriculum provides a much simpler and more structured programme for students in Honours and Specialization programmes. First year courses, as before, introduce students to the two main fields of the discipline. Second year courses provide a more focussed review of important sub-fields, while final year courses allow in-depth analysis of applied subject matters. At the same time the student is exposed to a progression of methods and techniques courses. Cartography, as before, is introduced in year 1. Year two courses introduce students to field techniques and other data collection methods and to quantitative techniques. Final year courses involve a field camp, and the historical survey of the development of geographic thought.

Since the overall programme changes involve a reduction of course offerings, there are no budgetary implications.

Urban Studies have been consulted over the change to Geography C433.

DATE: February 17, 1981

D. Binc Shul (Dept. Chairman)  
Ronald Doyle (Provost or  
Divisional Dean)

GEOGRAPHY (cont'd)Reorganized Programmes

The programmes have been reorganized taking into account the course additions and deletions.

## 60 BA HONOURS IN GEOGRAPHY

Pattern A: Physical GeographyYear 1

18 GEOG C211<sup>6</sup>, C262<sup>6</sup>, C271<sup>6</sup>

Year 2

12 GEOG C341<sup>6</sup>, C361<sup>3</sup>, C362<sup>3</sup>

12 Chosen from GEOG C371<sup>6</sup>, C372<sup>6</sup>, C373<sup>6</sup>

Year 3

12 GEOG C369<sup>3</sup>, C391<sup>3</sup>, C491<sup>6</sup>

6 Chosen from GEOG C470<sup>3</sup>, C471<sup>3</sup>, C475<sup>3</sup>, C476<sup>3</sup>

Pattern B: Human Geography

Students may emphasize one of the following areas:

Cultural-Historical or Economic-Urban

Year 1

18 GEOG C211<sup>6</sup>, C262<sup>7</sup>, C271<sup>6</sup>

Year 2

12 GEOG C341<sup>6</sup>, C361<sup>3</sup>, C362<sup>3</sup>

12 Cultural-Historical: GEOG C312<sup>3</sup>, C316<sup>3</sup>, C317<sup>3</sup>, C325<sup>3</sup>

or

Economic-Urban: GEOG C331<sup>6</sup>, C358<sup>3</sup>, C359<sup>3</sup>

Year 3

12 GEOG C369<sup>3</sup>, C391<sup>3</sup>, C491<sup>6</sup>

6 Cultural-Historical: GEOG C410<sup>3</sup>, C411<sup>3</sup>, C420<sup>3</sup>, C421<sup>3</sup>

or

Economic-Urban: GEOG C430<sup>3</sup>, C431<sup>3</sup>, C434<sup>6</sup>, C450<sup>3</sup>, C451<sup>3</sup>



GEOGRAPHY (cont'd)

42 BA MAJOR IN MAN-ENVIRONMENT RELATIONSHIPS (LOYOLA)

Year 1

18 GEOG C211<sup>6</sup>, C265<sup>3</sup>, C266<sup>3</sup>, C275<sup>3</sup>, C276<sup>3</sup>

Year 2

6 GEOG C305<sup>6</sup>  
6 GEOG C371<sup>6</sup>

Year 3

6 GEOG C405<sup>6</sup>  
6 Chosen from GEOG C356<sup>6</sup>, C357<sup>6</sup>

FACULTY OF ARTS AND SCIENCE

FORM F

DIVISION

 IIDepartment Geographyfor the 1982 - 83LIST OF COURSE DELETIONS

(Please list all courses deleted from your programmes)

COURSE NUMBER	COURSE TITLE	NO. OF CREDITS
C222	Prehistoric Man and Environment	6
C350	Geography of Agriculture	3
C351	Forest Geography	3
C355	Spatial Organization	6
C363	Quantitative Geography II	3
C412	Political Geography	6
C422	Historical Geography of Quebec and Ontario	6
C424	The Historical Geography of a Selected Area	6
C451	Special Seminar in Economic Geography	6
C457	Geography of Transportation	6

## Health Education

The Curriculum Committee recommends approval of the proposed Health Education programme modifications.

1. Most of the changes are of an editorial nature and, in fact, are already incorporated in the current calendar. The main editorial changes are concerned with maintaining consistency in referring to Health Education as a Programme rather than as a Department. Other changes involve updating of 'notes' and corrections to course descriptions.
2. Non-editorial changes

NURS C320 will no longer be cross-listed with HEAL C320, and NURS C323 will no longer be cross-listed with HEAL C323.

The appropriate changes to the programmes and course prerequisites will be made to take into account the deletion of NURS C320 and C323 as separate listings.

NURS C394 (Selected Topics in Nursing) appears in the current calendar as though it were a repeat number for NURS C393 (Anthropological Concepts in Nursing). This entry is in error. NURS C394 will be deleted and the following Selected Topics slot course, with a repeat number, will be created.

### NURSING C391

#### Selected Topics in Nursing

The theme and the methodology will vary according to the special interests of the professor and the needs of the students. The course is designed to provide students with the opportunity to extend their studies beyond the subjects already included in the curriculum. (3 credits)

### NURSING C392                    Repeat number for NURS C391

#### Selected Topics in Nursing

Students who have received credit for NURS C391 may register for NURS C392 provided the subject matter is different. (3 credits)

3. Course Deletions

NURS C394, C432, C445, C447  
HEAL C201, C331

INSTITUTE FOR CO-OPERATIVE EDUCATION

The Committee recommends the approval of a statement covering academic standing for members of the Institute of Co-Operative Education. (The requirements recommended here are consistent with requirements in the Liberal Arts College).

The following statements would appear in the section of the calendar entry for the Institute for Co-Operative Education that deals with Co-Operative Performance Requirements:

"Institute for Co-Operative Education students enrolled in a Major or Specialization must maintain a 'C' average (i.e. 65%) in the required courses, and no grade lower than a 'D' (i.e. 55%) in any course, elective or required. Students registered in Honours must meet the Faculty Honours programme academic requirements".

## Library Studies

The Curriculum Committee recommends approval of the submission from Library Studies.

The changes proposed are all of a minor editorial nature except for the proposal to add LIBS C410 (Computer Applications in Libraries).

The lengthy rationale prepared by Library Studies to justify the addition of the course was convincing to the Committee. Attention was drawn to the ever-increasing reliance on automated systems in libraries. Students in our Library Studies programme must have the opportunity to go beyond a basic introduction to the use of computers and increase their knowledge and practical skills in a course that provides more "hands on" experience. The equipment and materials to support the course are available now or have been approved for purchase, e.g., a microcomputer and commercially available programmes. It is proposed that additional, moderate units for computer-correct time can be charged to the student (presumably in lieu of text book costs). Costs for a laboratory assistant for 20 students are indicated as being in the order of \$1200 and another \$300 is estimated as necessary to purchase operating manuals and miscellaneous supplies.

### LIBRARY STUDIES C410

#### Computer Applications in Libraries

Prerequisite: Completion of all required 300-level courses and permission of the Coordinator. A practical introduction to the operation and use of automated systems and equipment commonly encountered in libraries. Students will become familiar with the techniques of searching large commercially-available data bases for bibliographic retrieval and computer assisted cataloguing and will gain first-hand experience in searching, altering and operating small-scale circulation and cataloguing systems. (3 credits)

NOTE: Students may be required to bear some of the cost of on-line searching.

## Modern Languages and Linguistics

The Curriculum Committee recommends approval of the department's curriculum submission.

### 1. New courses

(a) The following two courses have been offered a number of times as slot courses and it is now proposed that they become part of the department's course listing. It is not anticipated that the courses would be offered every year. SPAN C470 will enrich the offerings in Spanish and the creation of GERM C360 will provide a parallel to course offerings in Spanish and Italian.

#### SPANISH C470

##### Spanish Balladry

Prerequisite: SPAN C250 or equivalent. A study of the influence of the romancero in the literature of the Spanish-speaking world, from the traditional cycles (The Cid, King Arthur) to Garcia Lorca and contemporary modern balladry. (6 credits)

#### GERMAN C360

##### German Civilization

Prerequisite: GERM C250 or C255 or equivalent. This course is designed to acquaint the student with the intellectual and cultural history of German-speaking nations as reflected in their writers. Although it is primarily concerned with ideas and aesthetics, attention will also be given to the development of language, customs and folklore. (6 credits)

(b) At present the department offers Introductory Hebrew C210 "Introductory Course in Hebrew A/B" (6 credits) and Hebrew C211 "Introductory Course in Hebrew B" (3 credits). The latter course is equivalent to the second half of the former. The availability of the 3-credit portion allows students with some background to enter the course in January. The parallel situation exists for Introductory Russian. The department proposes that a similar arrangement be established for Intermediate Hebrew and Intermediate Russian. The calendar entries would be as listed below.

Modern Languages and Linguistics (cont'd)

HEBREW C250

(Modification to existing course)

Intermediate Hebrew A/B

Prerequisite: HEBR C210, or two to three years of high school Hebrew or equivalent. This course consists of a complete review of Hebrew grammar and syntax, with special emphasis on modern Hebrew usage, readings in the Bible, and an introduction to modern Hebrew literature. Can be taken concurrently with HEBR C300. Lectures and laboratory.  
(6 credits)

HEBREW C251

(New course)

Intermediate Hebrew B

Prerequisite: Permission of the Department. This course is equivalent to the second term of HEBR C250. It is designed for students who have taken two to three years of high school Hebrew or equivalent. Lectures and laboratory.  
(3 credits)

NOTE: Students who have received credit for HEBR C250 may not take this course for credit.

RUSSIAN C250

(Modification to existing course)

Intermediate Russian A/B

Prerequisite: RUSS C210 or C220, or equivalent. A complete review of grammar, and practice in composition, reading, and conversation. Through reading of short stories and additional material, the student is given the opportunity to gain acquaintance with Russian culture and literature. Lectures and laboratory. (6 credits)

RUSSIAN C251

(New course)

Intermediate Russian B

Prerequisite: Permission of the Department. This course is equivalent to the second term of RUSS C250. It is designed for students who have taken at least four semesters of Russian at the CEGEP level or equivalent. May be taken concurrently with RUSS C255. (3 credits)

NOTE: Students who have received credit for RUSS C250 may not take this course for credit.

The above changes will bring the Hebrew and Russian offerings into parallel with the other language offerings.

Philosophy

The Curriculum Committee recommends approval of the minor modifications to the Philosophy programmes.

It is proposed that:

- (a) PHIL C224<sup>6</sup> (Introduction to Logic) be included among the possible choices in Year II of the BA Honours and Specialization programmes
- (b) PHIL C245<sup>3</sup> (Philosophy and Society) be included among the first year choices in the BA Honours and Specialization programmes
- (c) The third year requirement of 6 elective credits in Philosophy at the 400 level be changed to "6 PHIL elective credits at the 300 or 400 level".

## Political Science

The Curriculum Committee recommends approval of the following curriculum submissions.

### 1. New Courses in International Politics

#### POLITICAL SCIENCE C325

##### Ideas and Ideologies in the Middle East

A survey of contemporary major political, historical, socio-economic and religious ideologies and movements which affect Middle Eastern political thought. Special attention is directed to Arab nationalism, Zionism, Turkish nationalism, the Islamic Revival in Iran, Socialism and Communism. (3 credits)

#### POLITICAL SCIENCE C341

##### Mid-East Political Systems II

A comparative study of the government and politics of the Arabian Peninsula, the states of Iraq, Syria, Lebanon, Jordan, Israel, Turkey and Iran. A link between these and the North African Arab states will be made. (3 credits)

These two courses are necessary additions to the existing offerings concerned with the Middle East (C321<sup>3</sup> and C339<sup>3</sup>). The growth in the literature and scope of Middle East Politics has made adequate coverage of this subject matter impossible in the existing courses.

The cross-listing of POLI C321 and C339 with the History Department will be discontinued.

### 2. New Courses in Public Policy and Public Administration

#### POLITICAL SCIENCE C357

##### Social and Political Power in Canadian Society

Prerequisite: POLI C250. An analysis of power and influence in Canadian society. The course will review theoretical approaches to the study of political power and influence leading to an examination of such key determinants of power as social class, elites, and economic structures in Canada. (3 credits)

#### POLITICAL SCIENCE C369

##### Regionalism and Public Policy in Canada

Prerequisite: POLI C250. An examination of the impact of regionalism on public policy in Canada with special emphasis on the problems of regional disparity and conflict. An historical analysis of national development policies and regional underdevelopment leads to a study of federal-provincial development strategies, and an assessment of alternative policies for the alleviation/elimination of regional disparities. (3 credits)

Political Science (cont'd)

## POLITICAL SCIENCE C381

## Bureaucracy and Public Policy

Prerequisite: POLI C365 or C367. An examination of the expanding role of the federal or provincial bureaucracy in the development and implementation of public policy in Canada. Particular attention is devoted to the sources of increasing bureaucratic power and to the patterns of interaction among the cabinet, parliament and the bureaucracy. (3 credits)

## POLITICAL SCIENCE C465

## Analysis and Evaluation of Public Policy

Prerequisite: POLI C361. An advanced study of the various theoretical approaches to policy planning, evaluation and analysis and of the various conceptual, methodological and ethical issues emergent in the evaluation of governmental policy performance. (3 credits)

The addition of the above courses is warranted given the direction of the department's development. Three new faculty members have been acquired in the area of concentration.

3. Course description changes

New descriptions for POLI C321<sup>3</sup> and C339<sup>3</sup> are proposed in the light of the addition of POLI C325<sup>3</sup> and C341<sup>3</sup>.

## POLITICAL SCIENCE C321

## The Middle East in World Politics

A survey of major regional and international problems facing the Middle East. The role of foreign powers will be examined with special emphasis on the USA and USSR. Selected topics include the Arab-Israeli question, the Lebanese crises, the Cyprus crises, the Iranian Revolution and its impact on international affairs and the crisis of the Gulf, Horn of Africa and the Red Sea. (3 credits)

## POLITICAL SCIENCE C339

## Mid-East Political Systems I

A comparative study of the government and politics of Arab North Africa, namely Egypt, Libya, Tunisia, Morocco, Algeria and the Sudan. A link between these and other Middle Eastern governments will be made. (3 credits)

Political Science (cont'd)4. New titles and course descriptions for

## POLITICAL SCIENCE C361

## Government, Society and the Public Purpose

An examination of the broad social, economic, political and cultural forces shaping governmental decisions and policies. Particular attention will be paid to the conflict between private and public concerns. (3 credits)

## POLITICAL SCIENCE C452

## Intergovernmental Relations in Canada

Prerequisite: POLI C250. An examination of the structure and process of relations among the federal, provincial and municipal levels of government. Particular attention is on the development and administration of shared programmes and the problems of intergovernmental cooperation. (6 credits)

## POLITICAL SCIENCE C462

## Seminar on Comparative Public Policy

Prerequisite: POLI C361 and C363. A comparative analysis of some of the major policy problems confronting industrially advanced societies. The aim is to understand how similar problems are approached by different political systems. (6 credits)

POLITICAL SCIENCE C460<sup>6</sup> is to be deleted in favour of the following pair of three-credit courses:

## POLITICAL SCIENCE C461

## The State and Economic Life

Prerequisite: POLI C250 or C361. An examination of the development of the welfare state and the forces contributing to the expansion of government intervention in the economy. Particular attention is devoted to the causal interdependence among values, political power, wealth, the general pattern of social stratification, and economic development. (3 credits)

## POLITICAL SCIENCE C463

## Government and Business in Canada

Prerequisite: POLI C250 or C361. A course in public policy designed to explore the relationship between government and business in Canada. Particular attention will be given to the formation and implementation of policies intended to promote and control enterprise and the role of government as entrepreneur. (3 credits)

Political Science (cont'd)

Appropriate modifications to the lists of courses in the various options within Political Science will be made.

The Curriculum Committee raised the question of the possible need for Economics prerequisites for some of the Political Science courses. Professor Price was willing to consider the matter of prerequisites in general, but felt that it was inappropriate to look at individual courses in a piece-meal fashion. The Committee agreed with this position and welcomed his suggestion that the two departments (Political Science and Economics) might carefully consult with regard to reviewing the prerequisite structure of their courses that have related subject matters.

## PSYCHOLOGY

The Psychology Department's curriculum submission consists of (1) a new course (2) the addition of a note to PSYC C200, and (3) changes in the prerequisites for certain courses.

### 1. New course

#### PSYCHOLOGY C372

##### Psychology of Physical Activity

Prerequisite: PSYC C310 and C315 or permission of the Department. The relationship between physical and psychological well-being is systematically explored. Topics that may be dealt with include philosophical roots of the mind - body problem, the structural and metabolic basis of both emotional expression and physical activity, the role of aerobic fitness level in altering emotional reaction patterns. (6 credits)

The proposed entry above was prepared in response to the Curriculum Committee's request to shorten the original submission in a way that would make it clear that the course would serve a very different function from that served by EXCI C453 Physiology of Exercise. In reaching its decision to approve this new course the Curriculum Committee took into account correspondence between Dr. Maag of Psychology and Dr. Sellers of Exercise Science. The original rationale presented in support of the new course is attached.

### 2. The following addition to the note following PSYC C200 Introductory Psychology was approved by the Committee. "Students who have credit for PSYC C200 or equivalent may not take MANA C213 for credit".

MANA C213 is called Foundations of Behaviour, and the content overlaps considerably with Introductory Psychology (and Introductory Sociology). Appropriate notes will also be added to MANA C213 and SOCI C200. Associate Dean Wills from the Faculty of Commerce and Administration has been consulted.

### 3. The Department wants to modify the prerequisites for its physiologically-oriented courses to read as follows:

PSYC C310 and C315, or 9 credits in CEGEP-level Chemistry and Biology courses or permission of the Department.

PSYCHOLOGY (cont'd)

2.

The proposed changes will allow certain students in other science programmes to take these courses. The courses affected are listed below:

- PSYC C357      Physiological Psychology
- PSYC C360      Brain Chemistry and Behaviour
- PSYC C363      Anatomical and Physiological bases of Motivation and Emotion
- PSYC C366      Animal Behaviour

The Curriculum Committee was in favour of all of the above requests.

FACULTY OF ARTS AND SCIENCE

FORM A

UNDERGRADUATE CURRICULUM PROPOSALS

for the 19 82-83 -- calendar

DIVISION

 IIDepartment PSYCHOLOGY

Please submit a brief summary of the proposed curriculum change(s), your rationale for proposing them, and a statement of budgetary implications (including resources required).

This form must accompany all proposals for curriculum change.

Addition of a new course - replaces 3-credit slot course C358 - Psychology of Exercise.

PSYCHOLOGY C372 - Psychology of Physical Activity (6 credits)

Prerequisites: Psychology C310 and C315.

Rationale: The department already has an area of specialization at the graduate level (Psychological Issues in Physical Activity) but offers no regular undergraduate course relevant to this specialization. With the rapidly growing literature in the area, the current 3-credit course is simply too limited in scope to permit undergraduate students to get the type of comprehensive exposure and critical treatment of pertinent issues which they will need if they are to work in this area. The research being done by the "Fitness" research group, which consists of two faculty members, Seraganian and Kaloupek, and several graduate students, has created a lot of interest among undergraduate students and each year we have several undergraduate students working on their own research projects in the area. Apart from serving psychology undergraduates who are interested in this area, the new course will also add to the psychology courses which are relevant for students taking the psychology orientation of the Recreation and Leisure programme. The proposed course does not overlap with existing courses in psychology and is clearly different in content and orientation from courses offered in Biophysical Education. In addition, the prerequisite structure makes it clear that we are not trying to compete with Biophysical Education for the same students. In summary, then, the proposed new course fills a gap in departmental offerings that needs to be filled, both because it strengthens our declared areas of departmental specialization and because it will meet certain real needs in the undergraduate population that we serve.

DATE: \_\_\_\_\_

*Dennis A. Murphy - May* (Dept. Chairman)  
*Kenneth Gaylor* (Provost or  
Divisional Dean)

P sychology C372      .../2

FORM A

The proposed course was approved by the Department Curriculum Committee and ratified by the Department meeting February 12, 1981. It has no budgetary implications because we will cancel the 3-credit half course and simply teach 3 credits less somewhere else.

## SIMONE DE BEAUVOIR INSTITUTE AND WOMEN'S STUDIES

1. A main requirement for membership in the Simone de Beauvoir Institute is the completion of 9 credits of Women's Studies courses. Most students who are enrolled in a Women's Studies programme (Major, Minor, or Certificate) are members of the Institute. Many students who were registered in Women's Studies programmes assumed that they were automatically members of Simone de Beauvoir. To eliminate the current confusion between Institute membership and registration in Women's Studies programmes it is proposed that "all students registered in a Major, Minor or Certificate programme in Women's Studies be recognized as ipso facto members of the Institute".

The Curriculum Committee recommends approval of a change in the calendar entry concerning membership in the Simone de Beauvoir Institute as indicated below:

### Student Members

- All students registered in the Major, Minor or Certificate in Women's Studies are ipso facto members of the Institute. Other undergraduate students in the Faculty of Arts and Science are welcome to become members if they undertake to complete SDEB C301, or C302 or C303 plus 6 credits in Women's Studies chosen in consultation with an Institute adviser. All members must complete the Fellow's Seminar SDEB C301, or C302 or C303 (3 credits). Members are expected to contribute to the activities of the Institute.
2. The Committee recommends approval of the change in name for the Simone de Beauvoir Tutors' seminars (approved last year). The seminars SDEB C301<sup>3</sup>, C302<sup>3</sup>, C303<sup>3</sup> will be known as The Fellows' Seminar.
  3. The Committee recommends approval of the modifications to the Major, Minor and Certificate in Women's Studies. The main change in the programme requirement is that all students will be required to complete one of the SDEB Fellows' Seminars. This requirement is added to the Major and Minor programmes making them 39 credits (from 36) and 27 credits (from 24) respectively. There is no increase in the 30 credit Certificate programme. Other small modifications to the programme are essentially rearrangement of the existing requirements.

SIMONE DE BEAUVOIR INSTITUTE AND WOMEN'S STUDIES (cont'd)

39 BA Major in Women's Studies

Group 1

15 WMNS C290<sup>3</sup>, C291<sup>3</sup>, C491<sup>3</sup>, C492<sup>3</sup>;  
SDEB C301<sup>3</sup> or C302<sup>3</sup> or C303<sup>3</sup>

Group 2

3 Chosen from WMNS C390<sup>3</sup>, C392<sup>3</sup>, C393<sup>3</sup>

Group 3

21 Chosen in consultation with the Women's  
Studies Adviser from WMNS C390<sup>3</sup>, C391<sup>3</sup>,  
C392<sup>3</sup>, C393<sup>3</sup>; SDEB C301<sup>3</sup>, C302<sup>3</sup>, C303<sup>3</sup>;  
FMST C329<sup>3</sup>; CLAS C254<sup>3</sup>; ECON C397<sup>3</sup>;  
EDUC C321<sup>3</sup>; ENGL C249<sup>3</sup>, C250<sup>3</sup>, C251<sup>3</sup>,  
C252<sup>3</sup>; FRAN C451<sup>3</sup>, C476<sup>3</sup>, C477<sup>3</sup>;  
HIST C318<sup>6</sup>; PHIL C230<sup>3</sup>, POLI C334<sup>6</sup>;  
PSYC C390<sup>6</sup>; RELI C333<sup>3</sup>, C334<sup>3</sup>; SOCI C372<sup>6</sup>;  
THEO C471<sup>3</sup>, C472<sup>3</sup>

- - - - -

27 BA Minor in Women's Studies

Group 1

15 WMNS C290<sup>3</sup>, C291<sup>3</sup>, C491<sup>3</sup>, C492<sup>3</sup>;  
SDEB C301<sup>3</sup> or C302<sup>3</sup> or C303<sup>3</sup>

Group 2

3 Chosen from WMNS C390<sup>3</sup>, C392<sup>3</sup>, C393<sup>3</sup>

Group 3

9 Chosen in consultation with the Women's  
Studies Adviser from WMNS C390<sup>3</sup>, C391<sup>3</sup>, C392<sup>3</sup>,  
C393<sup>3</sup>; SDEB C301<sup>3</sup>, C302<sup>3</sup>, C303<sup>3</sup>; FMST C329<sup>3</sup>;  
CLAS C254<sup>3</sup>; ECON C397<sup>3</sup>; EDUC C321<sup>3</sup>; ENGL C249<sup>3</sup>,  
C250<sup>3</sup>, C251<sup>3</sup>, C252<sup>3</sup>; FRAN C451<sup>3</sup>, C476<sup>3</sup>, C477<sup>3</sup>;  
HIST C318<sup>6</sup>; PHIL C230<sup>3</sup>; POLI C334<sup>6</sup>; PSYC C390<sup>6</sup>;  
RELI C333<sup>3</sup>, C334<sup>3</sup>; SOCI C372<sup>6</sup>; THEO C471<sup>3</sup>, C472<sup>3</sup>

SIMONE DE BEAUVOIR INSTITUTE AND WOMEN'S STUDIES (cont'd)

30

## Certificate in Women's Studies

Group 1

15 WMNS C290<sup>3</sup>, C291<sup>3</sup>, C491<sup>3</sup>, C492<sup>3</sup>;  
SDEB C301<sup>3</sup> or C302<sup>3</sup> or C303<sup>3</sup>

Group 2

15

Chosen in consultation with the Women's Studies  
Adviser from WMNS C390<sup>3</sup>, C391<sup>3</sup>, C392<sup>3</sup>, C393<sup>3</sup>;  
SDEB C301<sup>3</sup>, C302<sup>3</sup>, C303<sup>3</sup>; FMST C329<sup>3</sup>; CLAS C254<sup>3</sup>;  
ECON C397<sup>3</sup>; EDUC C321<sup>3</sup>; ENGL C249<sup>3</sup>, C250<sup>3</sup>, C251<sup>3</sup>,  
C252<sup>3</sup>; FRAN C451<sup>3</sup>, C476<sup>3</sup>, C477<sup>3</sup>; HIST C318<sup>6</sup>;  
PHIL C230<sup>3</sup>; POLI C334<sup>6</sup>; PSYC C390<sup>6</sup>; REII C333<sup>3</sup>,  
C334<sup>3</sup>; SOCI C372<sup>6</sup>; THEO C471<sup>3</sup>, C472<sup>3</sup>

- - - - -

4. The Committee recommends approval of the change in  
prerequisite to WMNS C392 Social Change: Women in  
Modern Society I and WMNS C393 Social Change: Women  
in Modern Society II

These courses will have the prerequisite of  
WMNS C290, and C291. (Women's Identity and Image:  
Historic Attitudes and Women's Identity and Image:  
Recent Approaches).

## Sociology

The Curriculum Committee recommends approval of the following modifications.

The Sociology Department's submission involves modifications of its slot course offerings at the 300 and 400 level.

1. SOCIOLOGY C390<sup>3</sup>, C391<sup>3</sup>, C392<sup>3</sup> and C393<sup>3</sup> are currently listed as separate, 3-credit Selected Topics courses. It is proposed to change these slots to the more typical repeat-number format as follows:

### SOCIOLOGY C390

#### Selected Topics in Sociology

Prerequisite: One Sociology course at the 200 level. Study of a special topic in Sociology with the requirement of a research paper. (3 credits)

SOCIOLOGY C391                  Repeat number

#### Selected Topics in Sociology

Students who have received credit for SOCI C390 may register for SOCI C391 provided the subject matter is different. (3 credits)

### SOCIOLOGY C392

#### Selected Topics in Sociology

Prerequisite: One Sociology course at the 200 level. Study of a special topic in Sociology with the requirement of a research paper. (3 credits)

SOCIOLOGY C393                  Repeat number

#### Selected Topics in Sociology

Students who have received credit for SOCI C392 may register for SOCI C393 provided the subject matter is different. (3 credits)

It is proposed that SOCIOLOGY C394<sup>3</sup> with its repeat number of C395<sup>3</sup> also be added. The descriptions would be identical to the previous courses.

The department does not possess a 6-credit slot course at the 300 level. The following is therefore proposed:

Sociology (cont'd)

SOCIOLOGY C396

Selected Topics in Sociology

Prerequisite: One Sociology course at the 200 level. Study of a special topic in Sociology with the requirement of a research paper. (6 credits)

SOCIOLOGY C397                  Repeat number

Selected Topics in Sociology

Students who have received credit for SOCI C396 may register for SOCI C397 provided the subject matter is different. (6 credits)

2. Parallel modifications are proposed for the 400 level Topical Seminar courses. The new entry would be as follows:

SOCIOLOGY C490

Topical Seminar in Sociology

Prerequisite: SOCI C200 and one Sociology course at the 300 level. A critical examination of a special topic or problem in Sociology, with the requirement of a research paper. (3 credits)

SOCIOLOGY C491                  Repeat number

Topical Seminar in Sociology

Students who have received credit for SOCI C490 may register under SOCI C491. (3 credits)

SOCIOLOGY C492

Topical Seminar in Sociology

Prerequisite: SOCI C200 and one Sociology course at the 300 level. A critical examination of a special topic or problem in Sociology, with the requirement of a research paper. (3 credits)

SOCIOLOGY C493                  Repeat number

Topical Seminar in Sociology

Students who have received credit for SOCI C492 may register under SOCI C493. (3 credits)

Sociology (cont'd)

## SOCIOLOGY C494

## Topical Seminar in Sociology

Prerequisite: SOCI C200 and one Sociology course at the 300 level. A critical examination of a special topic or problem in Sociology, with the requirement of a research paper. (3 credits)

## SOCIOLOGY C495                  Repeat number

## Topical Seminar in Sociology

Students who have received credit for SOCI C492 may register under SOCI C495. (3 credits)

SOCIOLOGY C496<sup>6</sup> with the repeat number of SOCIOLOGY C497<sup>6</sup> is proposed to provide a 6-credit advanced level slot.

## SOCIOLOGY C496

## Topical Seminar in Sociology

Prerequisite: SOCI C200 and one Sociology course at the 300 level. A critical examination of a special topic in Sociology, with the requirement of a research Paper. (6 credits)

## SOCIOLOGY C497                  Repeat number

## Topical Seminar in Sociology

Students who have received credit for SOCI C496 may register for SOCI C497 provide the subject matter is different. (6 credits)

## Teaching English as a Second Language

The Curriculum Committee recommends approval of the curriculum submission from TESL.

The proposal is primarily concerned with simplifying the department's offerings. The B.Ed (TESL) currently offered with 3 options will be unified. A single certificate programme (with two sequences) will be created out of the seven different options that the present structure entails.

The department does not expect that the rearrangement of the programmes will lead to additional expenses.

The number of courses deleted (57 credits) as a result of the reorganization clearly outweighs the number of new courses proposed (30 credits). (List of courses deleted is attached).

### 1. Programme Reorganization

(a)	90	BEd (Teaching English as a Second Language
36*		TESL C211 <sup>3</sup> , C221 <sup>3</sup> , C231 <sup>3</sup> , C318 <sup>3</sup> , C324 <sup>3</sup> , C341 <sup>3</sup> , C385 <sup>3</sup> , C413 <sup>3</sup> , C415 <sup>3</sup> , C424 <sup>3</sup> , C485 <sup>6</sup>
12		Chosen from TESL C351 <sup>3</sup> , C431 <sup>3</sup> , C434 <sup>3</sup> , C442 <sup>3</sup> , C491 <sup>3</sup> , C492 <sup>3</sup> ; LING C200 <sup>6</sup> , C431 <sup>6</sup>
18		EDUC C201 <sup>6</sup> , C210 <sup>6</sup> , C230 <sup>6</sup> , C445 <sup>3</sup> ,
6		ENGL C211 <sup>6</sup> or C398 <sup>6</sup>
6		English literature to be approved by the Centre
12		Elective credits from any department

\*Students are advised to divide the required  
TESL courses by year as follows:

#### YEAR I

TESL C211<sup>3</sup>, C221<sup>3</sup>, C231<sup>3</sup>

#### YEAR II

TESL C318<sup>3</sup>, C324<sup>3</sup>, C341<sup>3</sup>, C385<sup>3</sup>

#### YEAR III

TESL C413<sup>3</sup>, C415<sup>3</sup>, C424<sup>3</sup>, C485<sup>6</sup>

Teaching English as a Second Language (cont'd)

(b) 30 Certificate in the Teaching of English  
as a Second Language: Sequence I

Courses

TESL C201<sup>3</sup>, C203<sup>6</sup>, C205<sup>3</sup>, C324<sup>3</sup>, C341<sup>3</sup>,  
C413<sup>3</sup>, C415<sup>3</sup>, C424<sup>3</sup>, C433<sup>3</sup>

(c) 30 Certificate in the Teaching of English  
as a Second Language: Sequence II

6 ENGL C211<sup>6</sup> or C398<sup>6</sup>  
24 TESL C221<sup>3</sup>, C231<sup>3</sup>, C324<sup>3</sup>, C341<sup>3</sup>, C415<sup>3</sup>,  
C424<sup>3</sup>, C431<sup>3</sup>, C433<sup>3</sup>

2. New courses

TESL C203

**Effective Communication**

This course is open only to students who are not native speakers of English. The aim of the course is to raise the level of oral and written communication of ESL teachers who are not native speakers of English.  
(6 credits)

NOTE: This course does not carry credit towards TESL Certificate: Sequence II.

TESL C205

**Introduction to the Structure of English**

This course is open only to students who are not native speakers of English. English word structure and sentence structure are examined together with ways of using this knowledge for the effective teaching of English as a second language. (3 credits)

NOTE: This course does not carry credit towards TESL Certificate: Sequence II.

Teaching English as a Second Language (cont'd)2. New courses (cont'd)

TESL C324

## Methodology I

Prerequisite: TESL C221 and C231 or TESL C203 and C205 and admission to a TESL programme or permission of the Department. This course reviews current theory in applied linguistics which relates directly to teaching and learning ESL in the classroom. Techniques and methods appropriate to child, adolescent, and adult learners are discussed and demonstrated. An integration of listening/speaking and reading/writing skills is emphasized. (3 credits)

TESL C385

## Observation and Practice Teaching

Prerequisite: TESL C324 previously or concurrently. This course introduces the student teacher to the ESL classroom. Students observe experienced teachers and have opportunities for micro-teaching, peer teaching, as well as some teaching to ESL students. Opportunities are provided for observation and practice with ESL learners at different ages and levels of proficiency in English. (3 credits)

TESL C413

## Audio-Visual Aids

Prerequisite: TESL C324 previously or concurrently. This course examines audio-visual resources and their effective use in second language teaching. Students are given experience with the technical equipment generally available for use in second language classrooms. In addition, students produce their own audio-visual materials. (3 credits)

TESL C424

## Methodology II

Prerequisite: TESL C324. This course continues the presentation of techniques and methods begun in TESL C324. In this course the emphasis is on the analysis and evaluation of existing ESL textbooks and materials, the development of materials which can be used to enrich and supplement textbooks and on the adaptation of existing teaching materials for child, adolescent, and adult ESL learners. (3 credits)

Teaching English as a Second Language (cont'd)2. New courses (cont'd)

TESL C433

Practicum

Prerequisite: TESL C324. This course is open only to students enrolled in Certificate I or Certificate II. In this course students will practice techniques which were introduced in their methodology courses. There will be opportunities for observation of ESL classes taught by experienced teachers. Techniques presented in TESL C324 and C424 will be practised in micro-teaching, peer teaching and sessions with groups of ESL students. Requirements include lesson planning and evaluation of one's own teaching performance. (3 credits)

TESL C485

Internship

Prerequisite: TESL C385 or equivalent. This internship is closely integrated with TESL C424. Students will do supervised teaching in ESL classes. In addition to seminars including demonstrations and discussions of teaching techniques appropriate to different ages and levels of proficiency in English, students will be responsible for teaching a group or groups of ESL learners over a prescribed time period. (6 credits)

3. Modifications to existing courses

Minor modifications to the course titles or course descriptions are suggested for  
TESL C201, C211, C221, C231, C415, C431, C434 and C442.

FACULTY OF ARTS AND SCIENCE

FORM F

DIVISION

1

Department TESL

for the 1982-83..

LIST OF COURSE DELETIONS

(Please list all courses deleted from your programmes)

COURSE NUMBER	COURSE TITLE	NO. OF CRED
ESL 203	Effective Communication I	6
ESL 204	Effective Communication II	3
TESL 322	Methodology I - Elementary	3
TESL 323	Methodology I - Secondary	3
TESL 382	Practice Teaching & Observation - Elementary	3
TESL 383	Practice Teaching & Observation - Secondary	3
TESL 384	Practice Teaching & Observation - Adult	3
TESL 411	Audio-Visual Aids in ESL Elementary	3
TESL 412	Audio-Visual Aids in ESL-Secondary	3
TESL 422	Methodology II - Elementary	3
TESL 423	Methodology II - Secondary	3
TESL 482	Internship - Elementary	6
TESL 483	Internship - Secondary	6
TESL 484	Internship - Adult	6
TESL 479	Internship	3

Theological Studies

The Curriculum Committee recommends approval of the proposed change to THEOL C438. The course title and description will appear as follows:

THEOLOGY C438

Human Destiny: Theological Dimension

Prerequisite: THEOL C330 or its equivalent with permission of the Department. Biblical, theological, and scientific data in the understanding they cast on the ultimate destiny of man and his world. (3 credits)

URBAN STUDIES

1. The Committee recommends the approval of the modifications to Minor, Major, Specialization and Honours programmes in Urban Studies. The proposed modifications have been approved by the Urban Studies Programme Committee consisting of members from all of the departments concerned in the Urban Studies programme. Most of the modifications are reorganizations, but one notable change involves the requirement of 6 credits of Statistics or Research Methods in the Honours and Specialization programmes.

The Cognate list has been abolished in favour of including a wide choice of elective credits within the programmes, and the total number of credits in the Honours programme has been reduced from 72 to 66. The format for the calendar entry has been modified to show the appropriate year-by-year progress through the programme. The programmes, as it is proposed that they appear, are as presented below:

## 66 BA HONOURS IN URBAN STUDIES

### Year 1

- 6 URBS C280<sup>6</sup>\*  
6 POLI C200<sup>6</sup>, or C250<sup>6</sup>  
6 ECON C201<sup>3</sup>, C203<sup>3</sup>  
6 Credits chosen from SOCI C210<sup>6</sup>, C310<sup>6</sup>, C311<sup>6</sup>, C312<sup>6</sup>

Year 2 or 3

- URBS C380<sup>6</sup>  
6 GEOG C331<sup>6</sup>  
6 POLI C336<sup>6</sup>  
9 Credits chosen from SOCI C350<sup>3</sup>, C351<sup>3</sup>, C353<sup>3</sup>, C354<sup>3</sup>

Year 3

- 6 URBS C481<sup>6</sup>  
6 GEOG C433<sup>6</sup>  
3 Credits chosen from ECON C391<sup>3</sup>, C392<sup>3</sup>, C396<sup>3</sup>

\* NOTE: URBS C280<sup>6</sup> will serve as a prerequisite for Urban courses in Sociology or Geography.

URBAN STUDIES (cont'd)

## 60 BA SPECIALIZATION IN URBAN STUDIES

Year 16 URBS C280<sup>6\*</sup>6 ECON C201<sup>3</sup>, C203<sup>3</sup>6 Credits chosen from SOCI C210<sup>6</sup>, C310<sup>6</sup>, C311<sup>6</sup>, C312<sup>6</sup>Year 1 or 26 URBS C380<sup>6</sup>Year 2 or 39 Credits chosen from SOCI C350<sup>3</sup>, C351<sup>3</sup>, C353<sup>3</sup>, C354<sup>3</sup>6 GEOG C331<sup>6</sup>Year 36 URBS C481<sup>6</sup>6 GEOG C433<sup>6</sup>3 Credits chosen from ECON C391<sup>3</sup>, C392<sup>3</sup>, C396<sup>3</sup>6 Elective credits chosen from the courses offered  
by the following departments or programmes:

Economics, Geography, Political Science, Science  
and Human Affairs, Sociology, Urban Studies. It  
is assumed that students will consult the Programme  
Coordinator when choosing these electives.

\* NOTE: URBS C280<sup>6</sup> will serve as a prerequisite  
for Urban courses in Sociology or Geography

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**URBAN STUDIES (cont'd)**

## 42 BA MAJOR IN URBAN STUDIES

### Year 1

12 URBS C280<sup>6\*</sup>, C380<sup>6</sup>  
6 ECON C201<sup>3</sup>, C203<sup>3</sup>

Year 2 or 3

6 GEOG C331<sup>6</sup>

6 Credits chosen from SOCI C350<sup>3</sup>, C351<sup>3</sup>,  
C353<sup>3</sup>, C354<sup>3</sup>

3 Credits chosen from ECON C391<sup>3</sup>, C392<sup>3</sup>, C396<sup>3</sup>

URBS C481<sup>6</sup>

3      Elective credits chosen from the courses offered by the following departments or programmes: Economics, Geography, Political Science, Science and Human Affairs, Sociology, Urban Studies. It is assumed that students will consult with the Programme Coordinator when choosing these electives.

\* NOTE: URBS C280<sup>6</sup> will serve as a prerequisite for Urban courses in Sociology or Geography

MENOR IN URBAN STUDIES

6 URBS C280<sup>6\*</sup>

24 Credits chosen from URBS C380<sup>6</sup>, C481<sup>6</sup>;  
ECON C201<sup>3</sup>, C203<sup>3</sup>, C391<sup>3</sup>, C392<sup>3</sup>, C396<sup>3</sup>,  
GEOG C331<sup>6</sup>, C433<sup>6</sup>; POLI C200<sup>6</sup> or C250<sup>6</sup>,  
C336<sup>6</sup>; SOCI C350<sup>3</sup>, C351<sup>3</sup>, C353<sup>3</sup>, C354<sup>3</sup>

\* NOTE: URBS C280<sup>6</sup> will serve as a prerequisite for Urban courses in Sociology or Geography

URBAN STUDIES (cont'd)

The following notes will appear in the appropriate place in the calendar.

- (a) "Students exempted from any required courses must replace them with others that are relevant to the programme, chosen in consultation with the Programme Coordinator".
- (b) URBS C280<sup>6</sup> will serve as a prerequisite for Urban courses in Sociology or Geography.

2. In order to allow students to complete one-semester field assignments for 3 credits it is proposed that URBS C482 (Urban Studies II) be split into two 3-credit courses as follows:

URBAN STUDIES C482 will be abolished and

URBAN STUDIES C483 Seminar in Urban Studies II  
and

URBAN STUDIES C484 Seminar in Urban Studies III

will be created. The course description will be the same for both and the same--(except for editorial changes) as for the previous URBS C482.

Prerequisite: URBS C481 and permission of the Coordinator. Students will complete a field assignment in an urban activity area. The seminar will allow students to discuss, with each other and the professor, their experiences and problems encountered during the field assignment. (3 credits)

The Committee recommends approval of the above proposal.

To: Members, Asian Studies Committee

From: Associate Professor David Miller  
Coordinator, Asian Studies Programme

Re: Minutes of the Asian Studies Committee Meeting, January 28, 1980.

Members Present: Professors: Hanson, McDonough, Miller, L.P. Singh.  
Library Representatives for Shastri Publications: Mahadev and Fallon.

Guest: Mrs. Kay de la Rende, Executive Director, Shastri Indo-Canadian Institute.

1. Professor Miller brought to the attention of those present the Report of Robert Wall, Prevost, Division IV, to be submitted to Arts and Science Faculty Council on February 1, 1980. The members present wish to go on record as opposing the proposed merger of the Asian Studies Programme with the Third World Studies Programme; they saw no academic merit in merging programmes that have attracted only a few major and minor students over the past years. It was felt that the Asian Studies Programme should be phased-out allowing those currently enrolled to finish the course of their studies.
2. Professor McDonough then moved: "that the Asian Studies Committee be disbanded and that a new committee, entitled, The Shastri Indo Canadian Institute Committee, be established to administer Shastri Programmes at Concordia University". The motion was seconded by Professor Singh and unanimously passed.
3. Professor Miller called attention to the Shastri Summer Programme at the University of Calgary, the summer of 1980. Members were asked to publicize the programme.
4. The Shastri acquisitions representatives discussed the block-order plan and the present surplus, urging faculty to submit individual orders, if necessary.
5. After the meeting, Professor Miller discussed points 1 and 2 above with Professor Singh and C. Brant, both of whom supported the Committee's decisions.